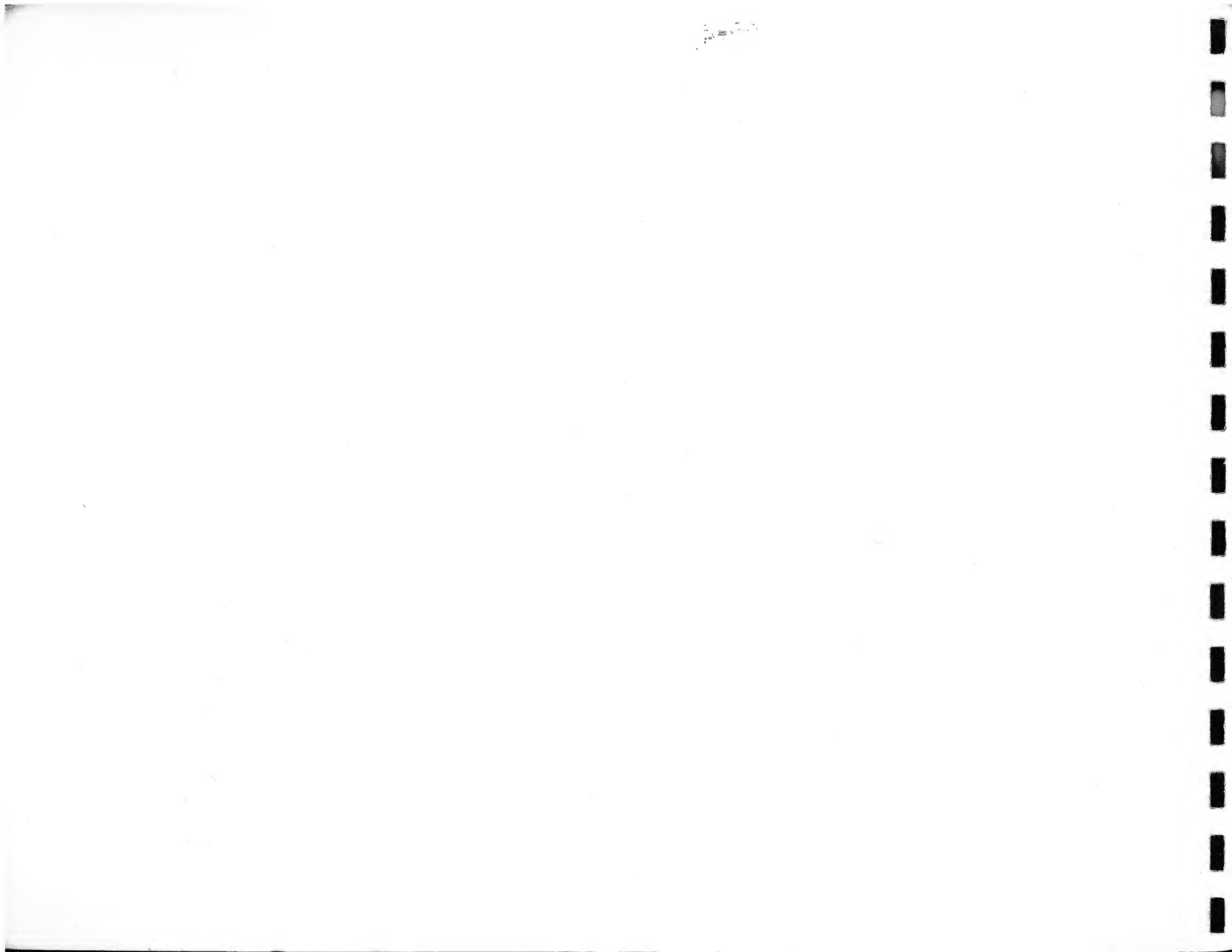




Honeywell

μ -COMP DDP-516 general purpose I/C digital computer



WEISE

Doc. No. 130071622D

M-968

Instruction Manual

DDP-516 GENERAL PURPOSE COMPUTER

Volume III

DRAWINGS

January 1969

Honeywell

Original printing Sept. 1966
Revised Feb. 1967, July and August 1968, and January 1969
Reprinted September 1968, and January 1969

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NOTE

This manual includes drawings revised in accordance with ECO 3255, 3467, 3686, 3704, 3718, 3767, 3839, 3990, 4084, 4131, 4172, 4217, 4226, 4286, 4350, 4483, 4464, 4763, 4895, 5170, 5641, 5724, 5776, 5906, and 6154.

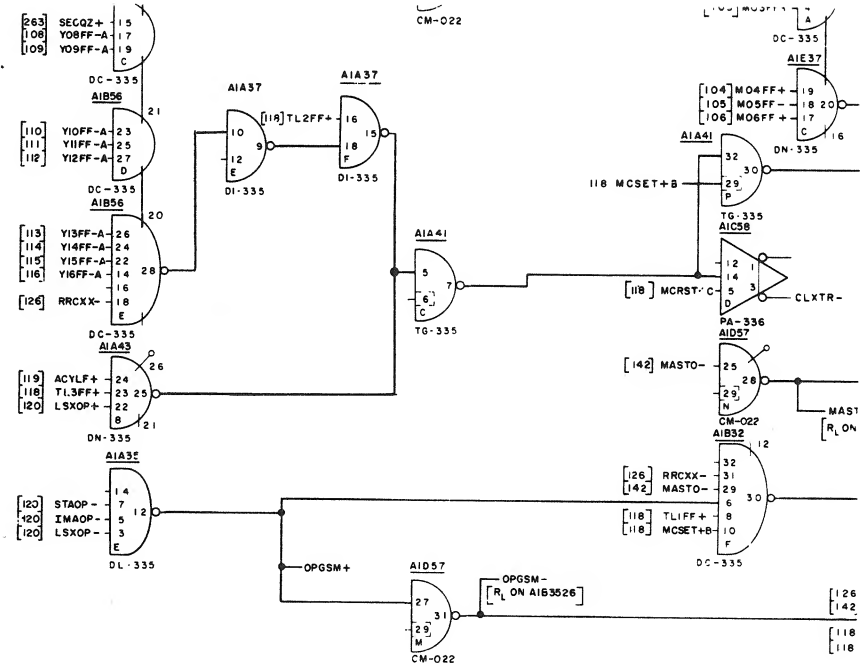
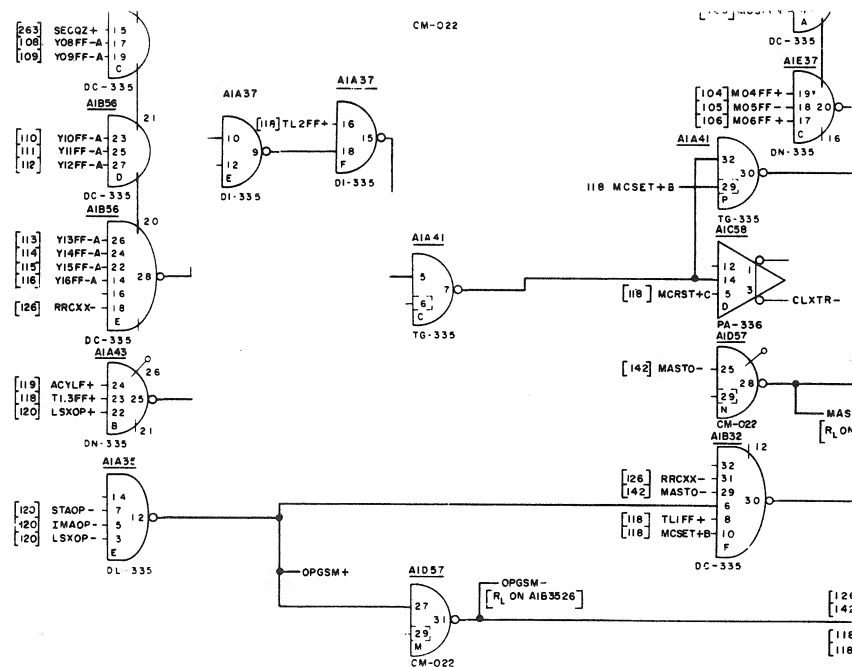
HONEYWELL LIMITED, COMPUTER CONTROL DIVISION

Instruction Manual Vol III DDP-516 General Purpose Computer Doc.No. 130071622D M968

Please note the following printing error on LBD No. 0.128, Page 29

LBD No. 0.128 READS

LBD No. 0.128 SHOULD READ



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FOREWORD

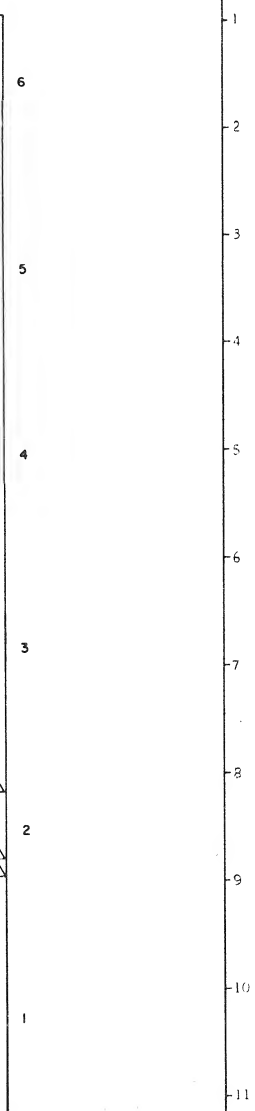
This volume contains electrical and mechanical reference drawings for the DDP-516 General Purpose Computer. Mechanical drawings follow the logic drawings. The logic drawings are arranged according to the LBD numbers that appear in the upper right-hand corner of each drawing. System cabling information, cable routing diagrams, the main frame PAC location diagram, and the main frame and option cabinet coding diagrams follow the logic diagrams.

The origins of input signals are shown at their destinations on the logic drawings. For example, the input signal EASTL+ on LBD number 0.101, coordinates A4, is preceded by [127], the LBD number of the logic drawing on which the signal originates.

Volume I contains maintenance data and the theory of operation of the Computer Control Processing unit, Memory, and the standard Input/Output interface equipment. The drawings contained in this Volume (III) are referenced throughout Volume I.


Volume II contains the flow charts and instruction analyses of all DDP-516 instructions (except for those that apply to specific options, such as the High Speed Arithmetic Unit). Volume II also contains the function index, which lists the signal mnemonics in alphanumerical sequence. Their definitions, and source are also included.

The reader should take note of areas on the LBDs which are within dashed lines, such as the gate on LBD 0.101, A3. The dashed-line areas contain logic used for certain options. This logic is present only when the computer is equipped with the option noted within the dashed line area. An example is the High Speed Arithmetic Unit.

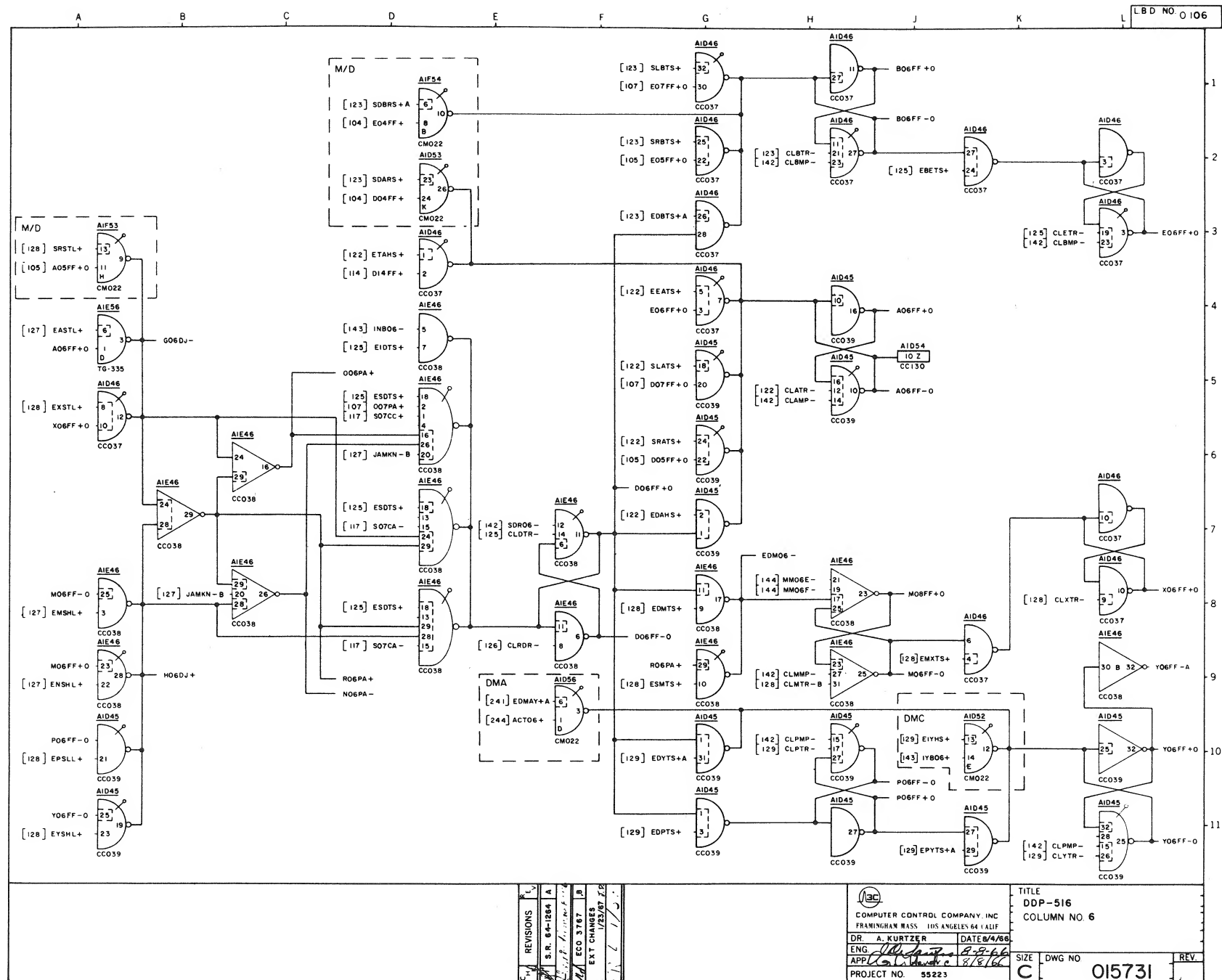


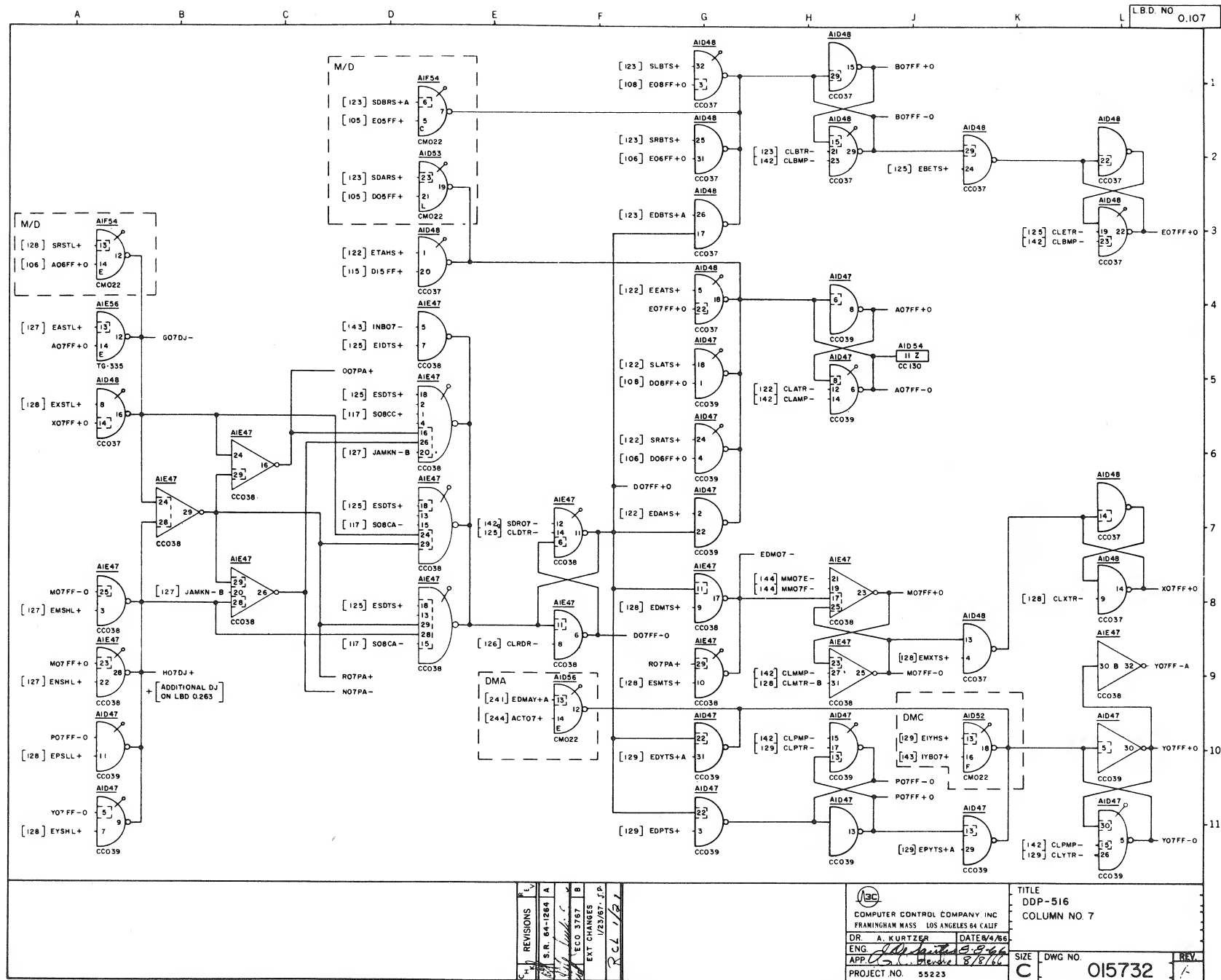
A THIS PAC REQUIRED WHEN SYSTEM HAS MORE THAN 8K OF MEMORY

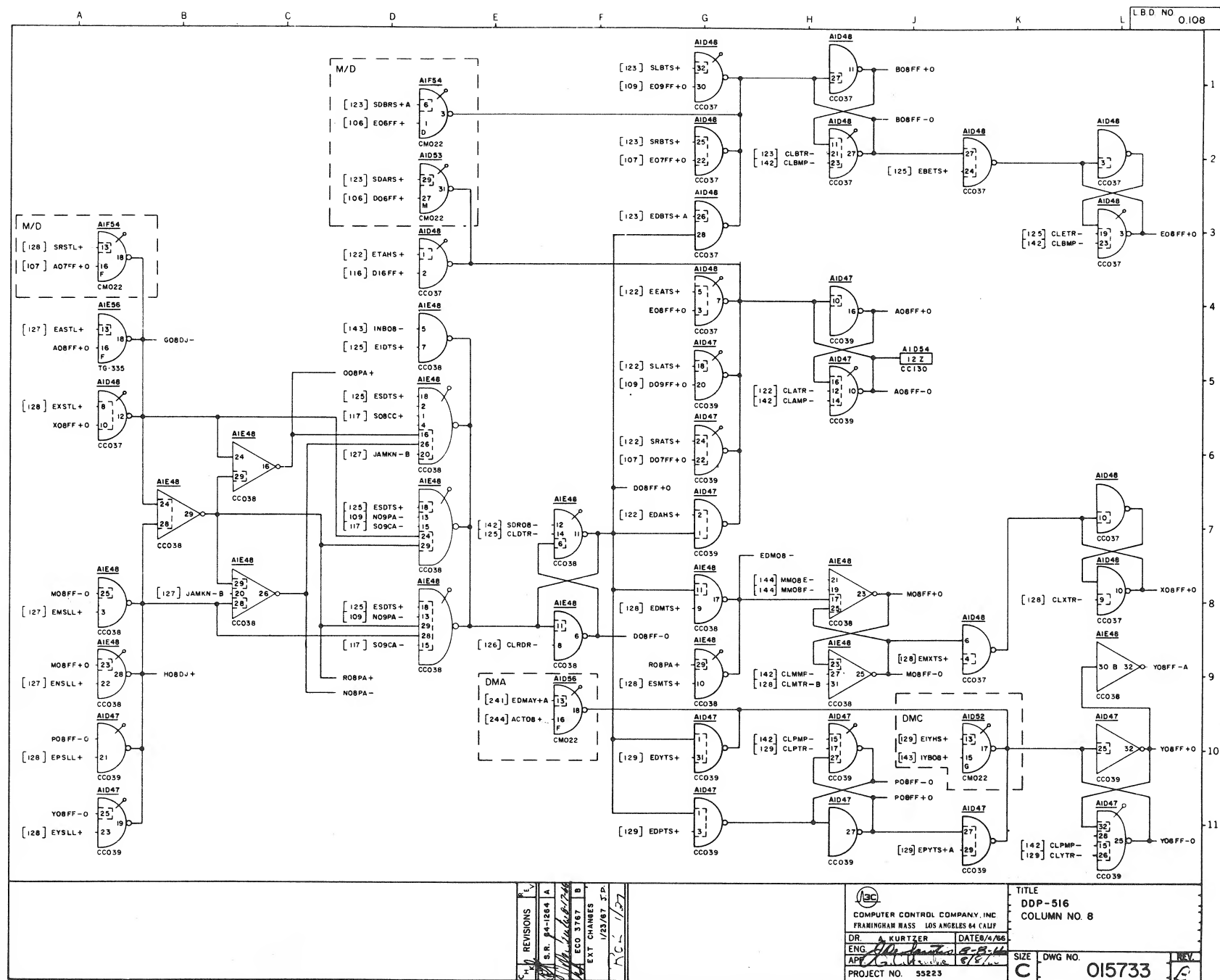
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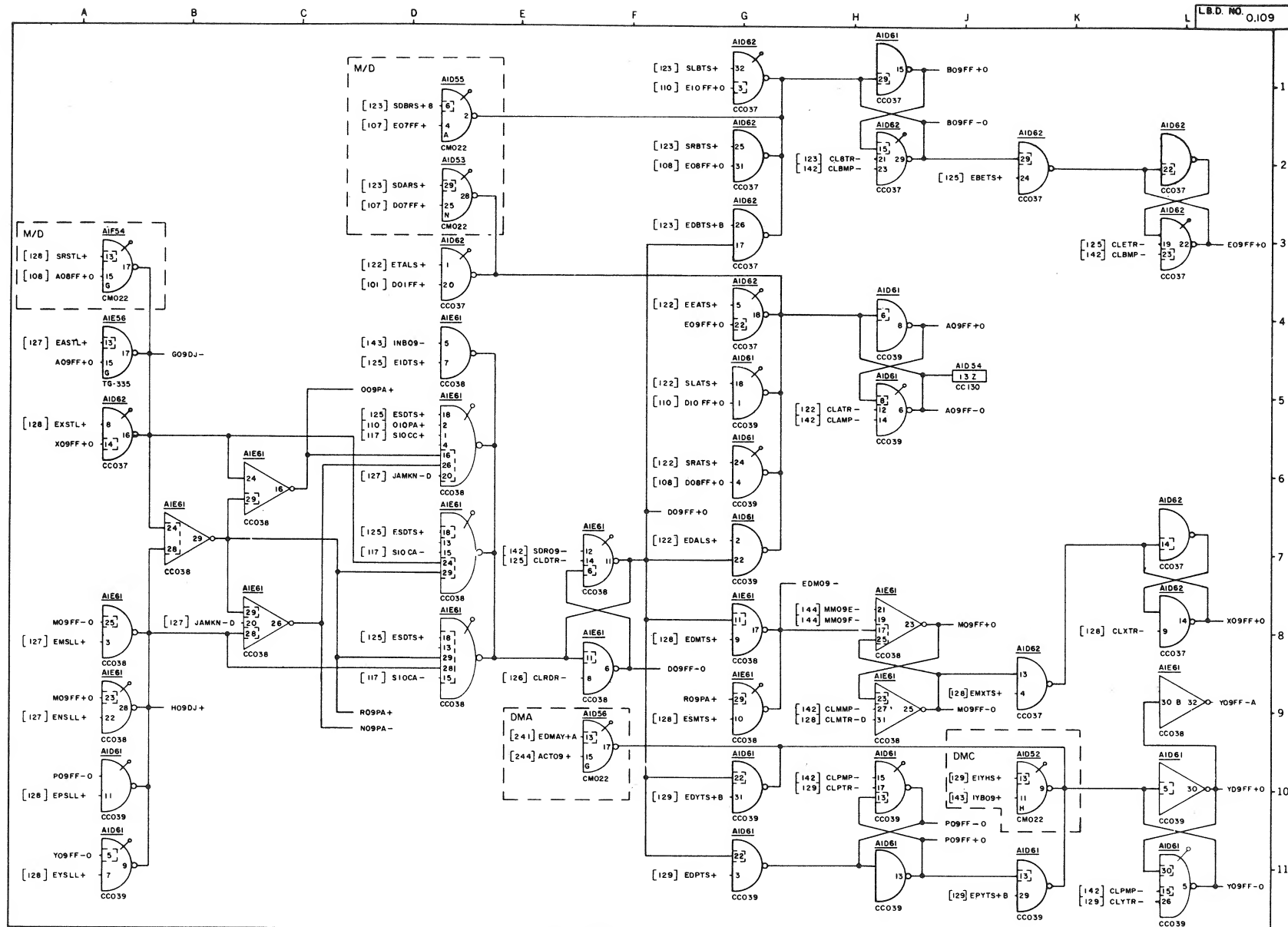
	
COMPUTER CONTROL COMPANY INC.	
FRAMINGHAM MASS. LOS ANGELES 64 CALIF.	
DR _____	DATE _____
ENG _____	_____
APP. _____	_____
PROJECT NO. 55223	

TITLE		
DDP-516		
PAC ALLOCATION, MAIN FRAME		
SIZE	DWG NO	REV
C	016252	G





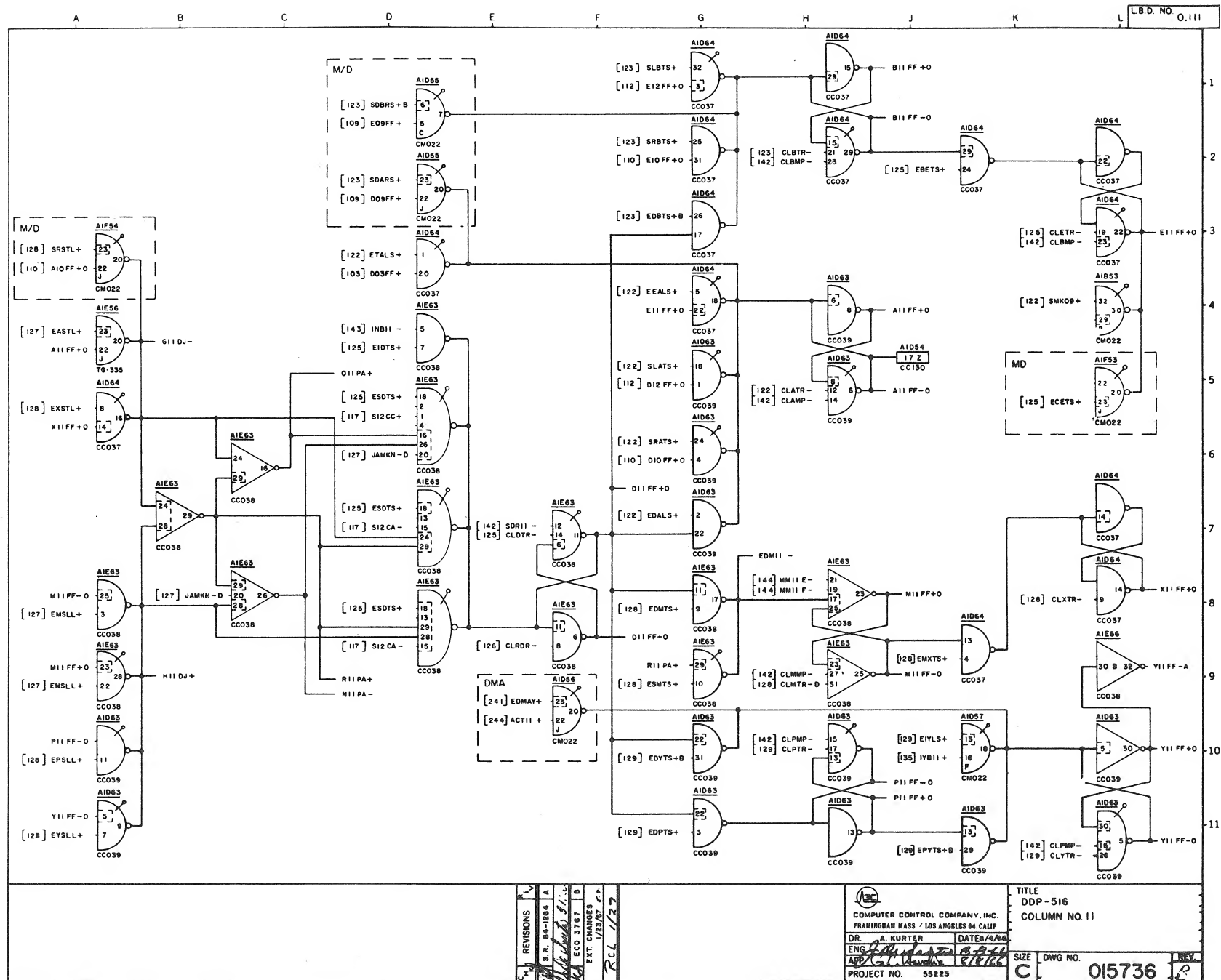


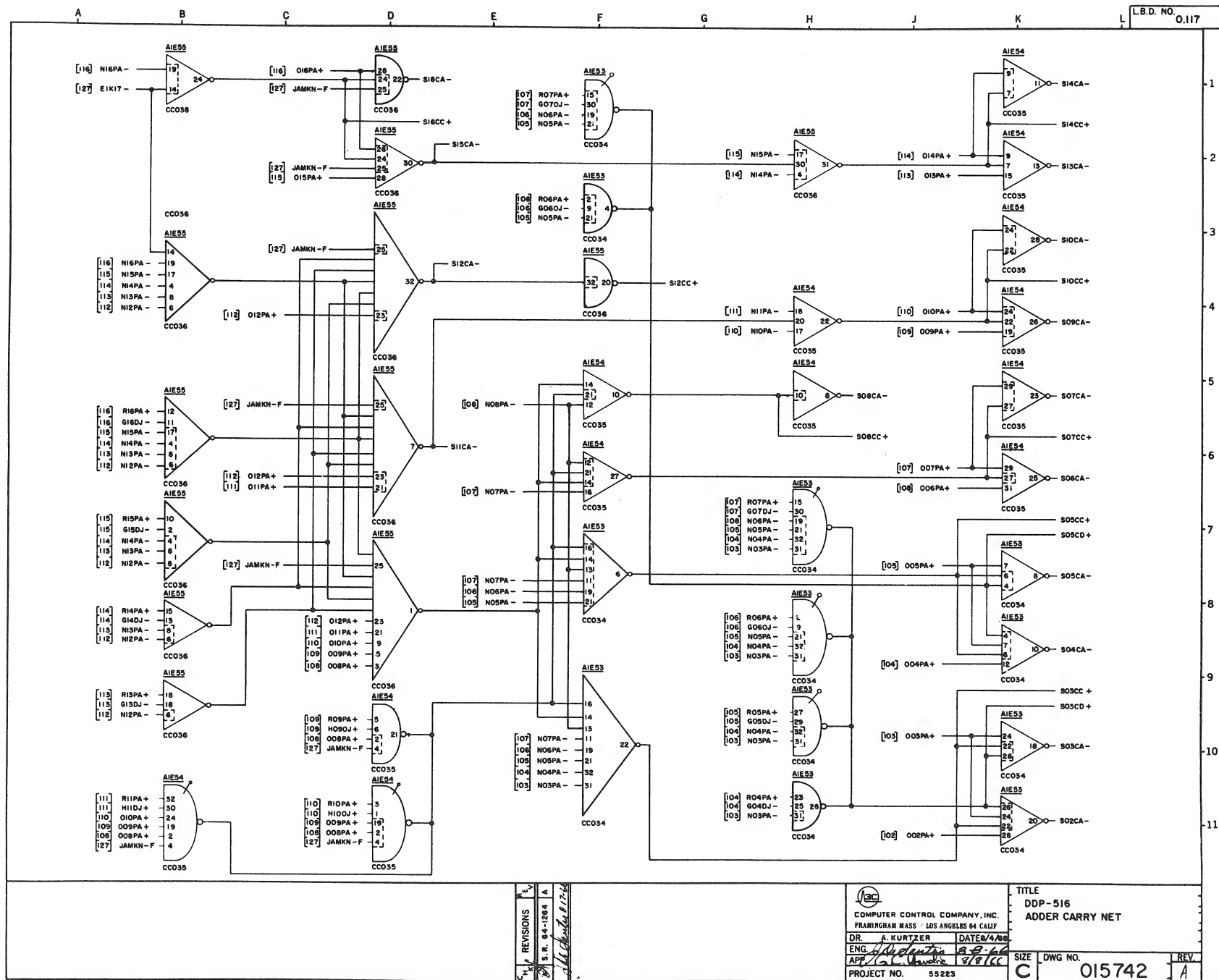


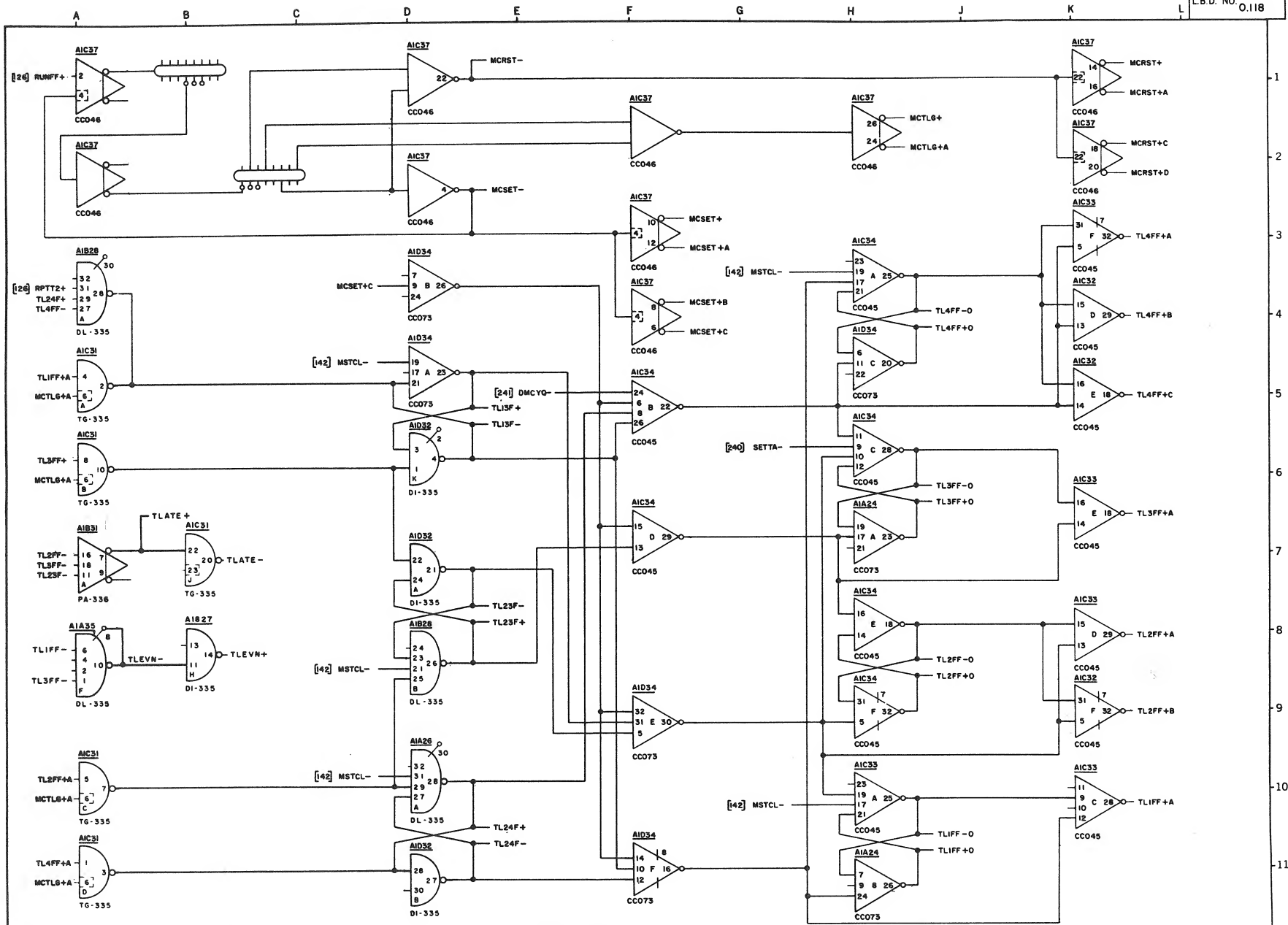
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1	S.R. 64-1264 A	1/23/67
2	ECO 3767 B	1/23/67
3	EXT CHANGES	1/23/67
4	RCL 1/27	1/23/67

COMPUTER CONTROL COMPANY, INC.	
FRAMINGHAM MASS. LOS ANGELES 64 CALIF.	
DR. A. KURTZER	DATE 8/4/66
ENG. [Signature]	8/4/66
APR. [Signature]	8/4/66
PROJECT NO. 55223	

TITLE	
DDP-516	
COLUMN NO. 9	
SIZE	DWG NO.
C	015734
REV	







REV	REVISIONS
1	S.R. 64-1284 A
2	ECO 1484 B
3	SEE ECO 1484 C
4	9/2/87 P.M.



COMPUTER CONTROL COMPANY, INC.
FRAMINGHAM, MASS. / LOS ANGELES 64, CALIF.

DR. A. KURTZER DATE 8/4/86

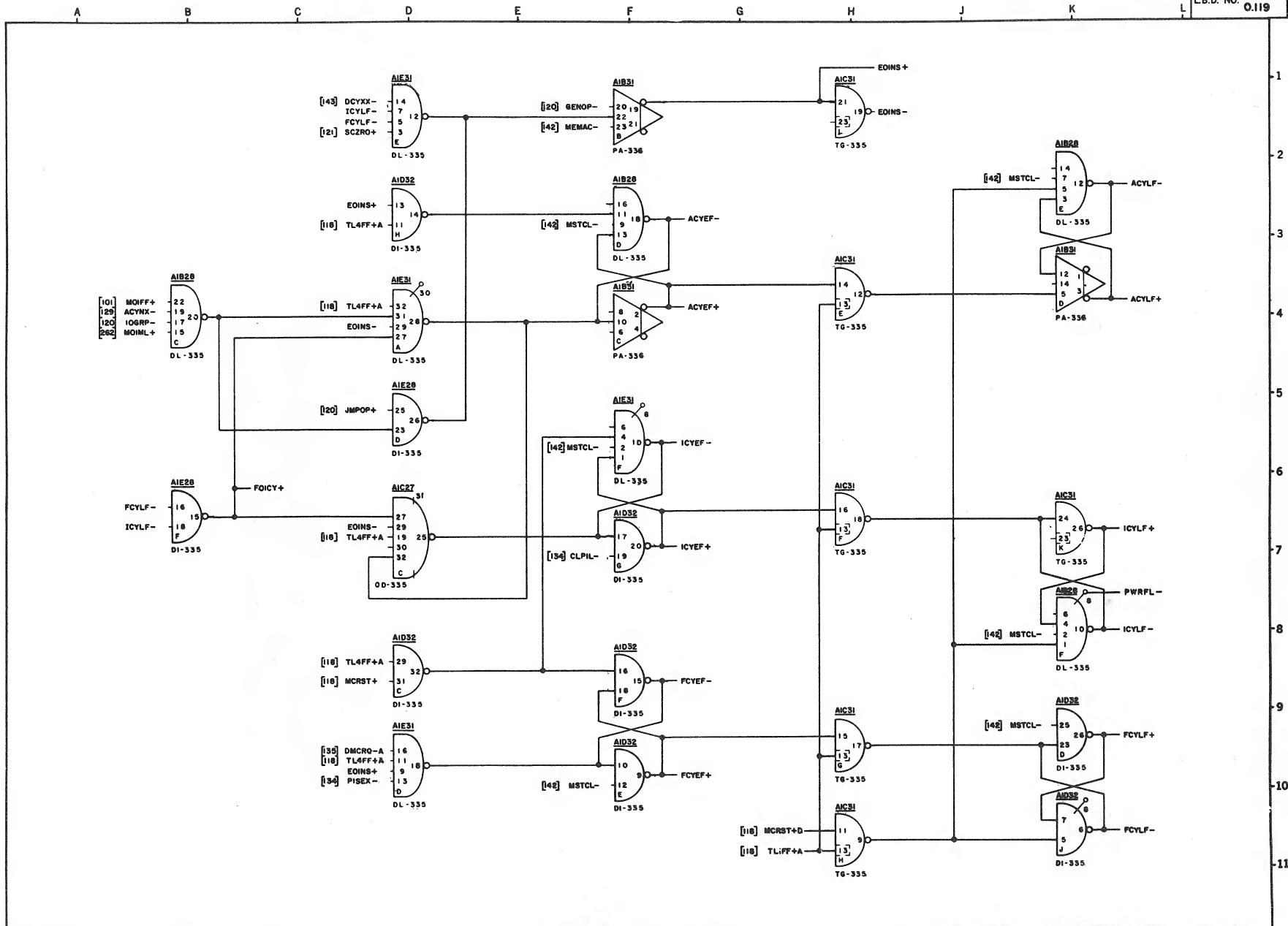
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PROJECT NO. 55223

TITLE
DDP-516
TLG & CLOCK

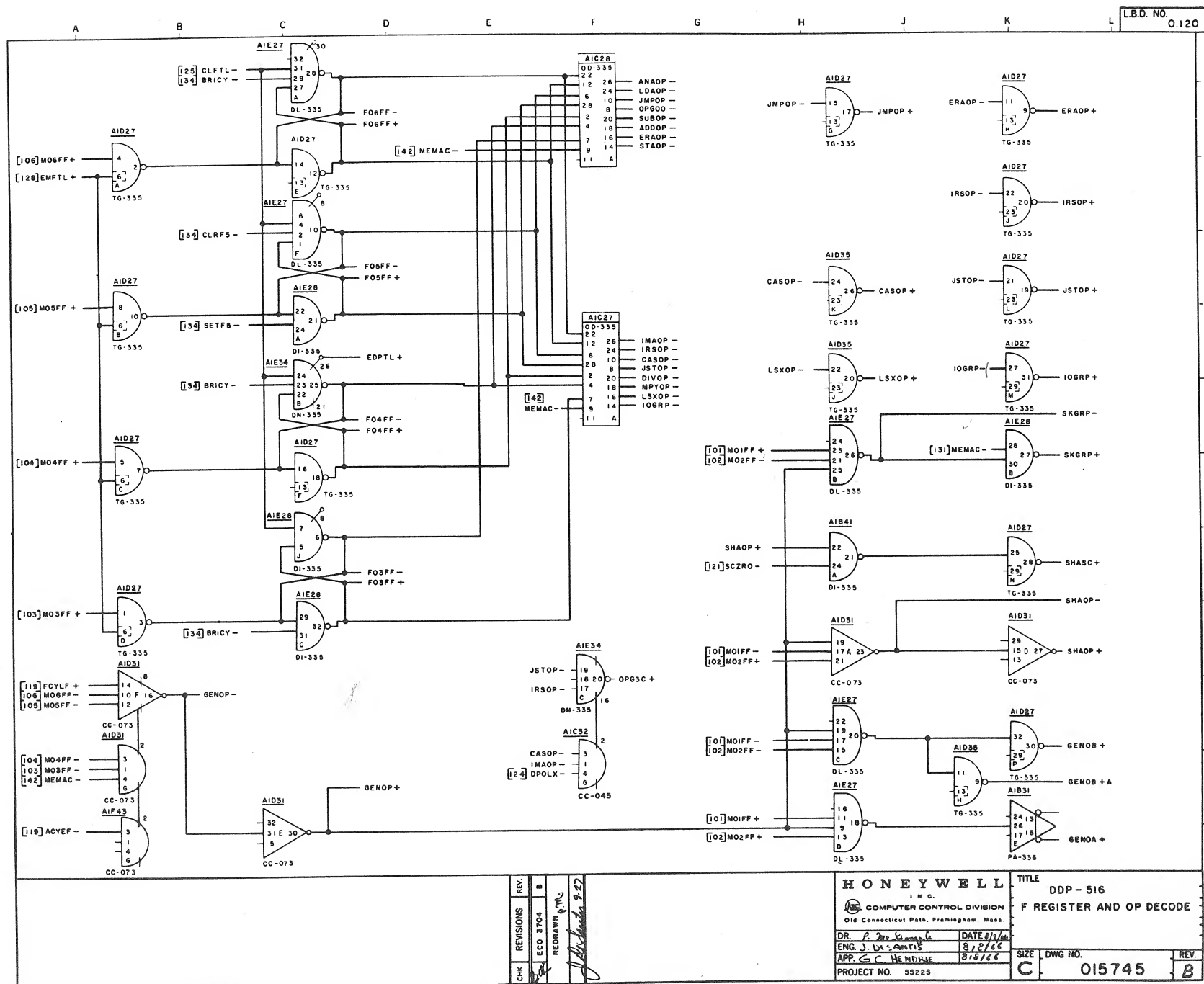
SIZE C DWG NO. 015743 REV 6

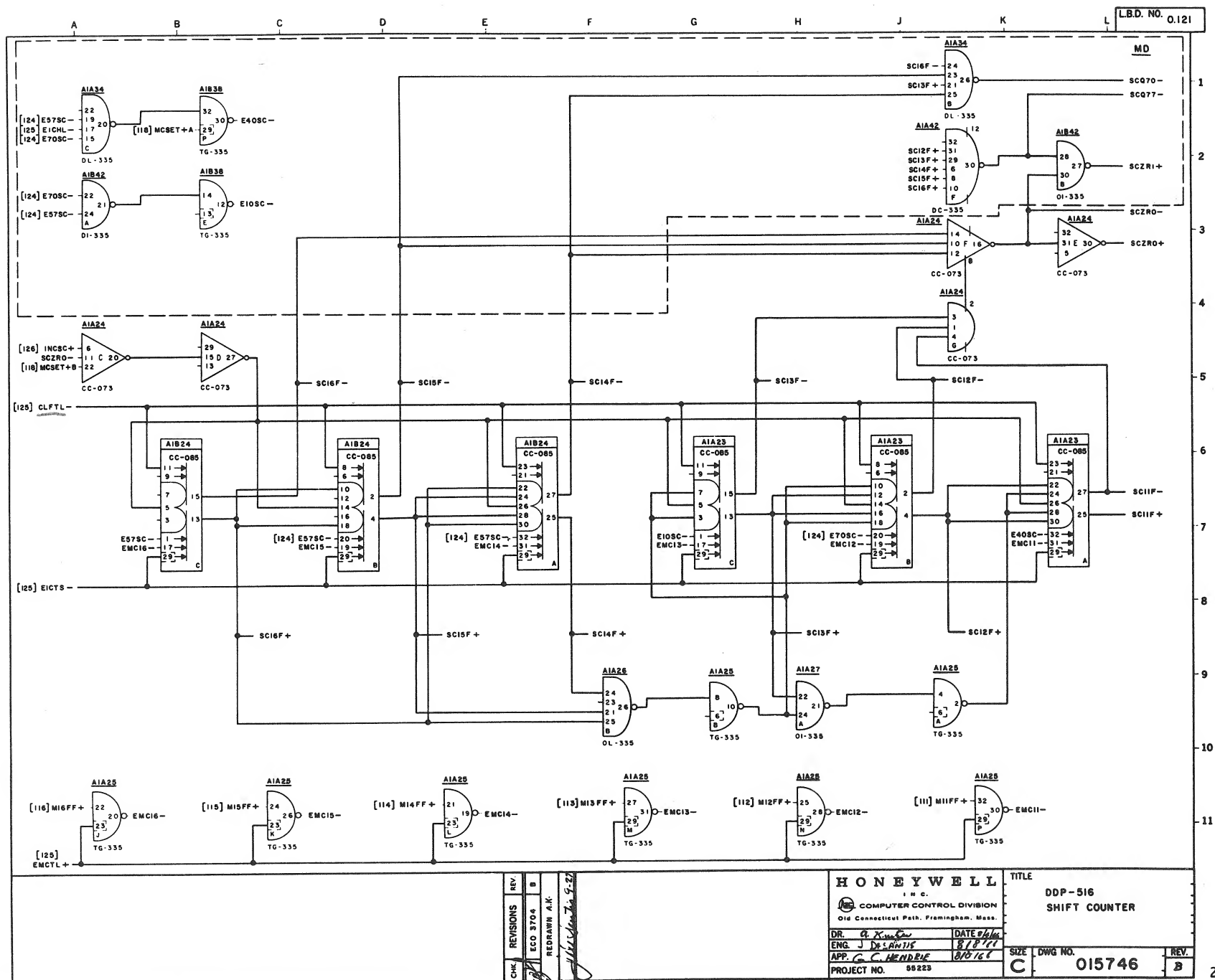


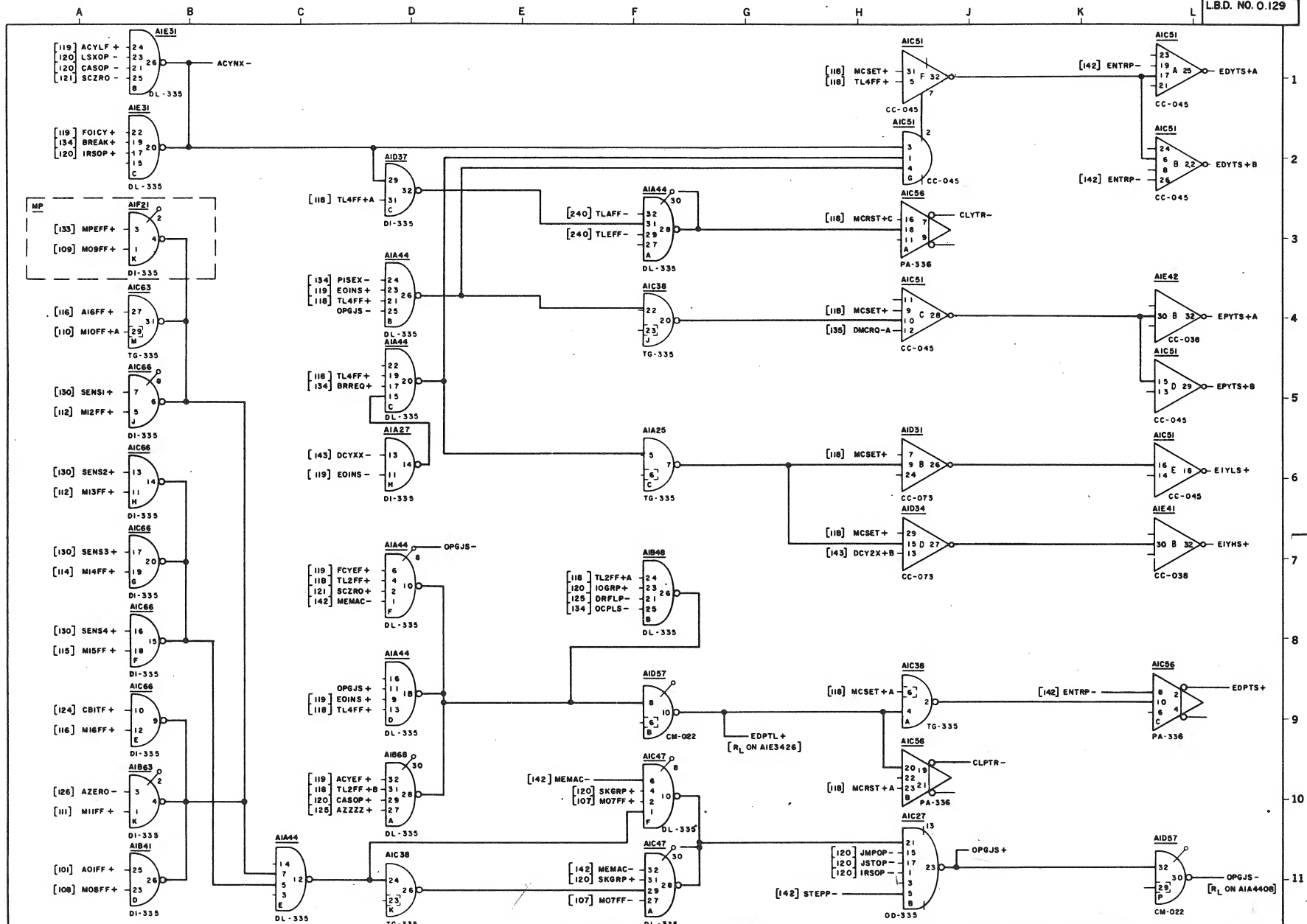
REV	REVISIONS
1	ECO 5641
2	TEXT CHANGES A-X
3	SEE ECO 3/19/58

COMPUTER CONTROL COMPANY, INC.
FRAMINGHAM, MASS. / LOS ANGELES 94, CALIF.
DR. A. KURTZER
ENG. J. C. KURTZER
PROJECT NO. 58223

TITLE
DDP-516
PHASE REGISTER
SIZE C
DWG NO. 015744
REV C







CHK.	REVISIONS	REV.	BY	DATE
	ECO 3704	B	REDRAWN R.K.	8/27/66
	ECO 4464	C	ECO 4464	8/27/66
	ECO 4464	D	ECO 4464	8/27/66
	ECO 4464	E	ECO 4464	8/27/66
	ECO 4464	F	ECO 4464	8/27/66
	ECO 4464	G	ECO 4464	8/27/66
	ECO 4464	H	ECO 4464	8/27/66
	ECO 4464	I	ECO 4464	8/27/66
	ECO 4464	J	ECO 4464	8/27/66
	ECO 4464	K	ECO 4464	8/27/66
	ECO 4464	L	ECO 4464	8/27/66

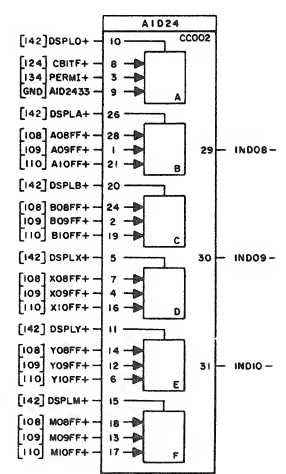
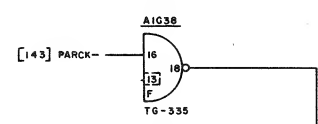
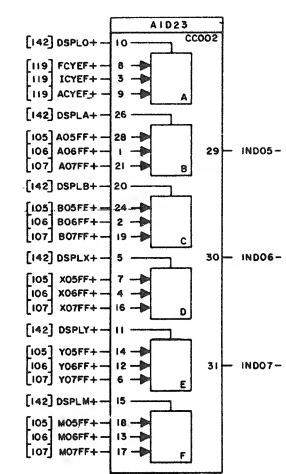
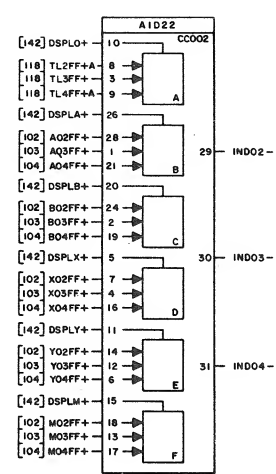
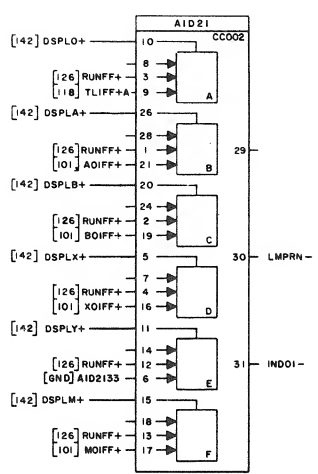
HONEYWELL
I H C.
COMPUTER CONTROL DIVISION
Old Connecticut Path, Framingham, Mass.

DR. A. KURTZER	DATE 8/4/66
ENG. J. DESANTIS	8/8/66
APP. G. C. HENDRIS	8/8/66

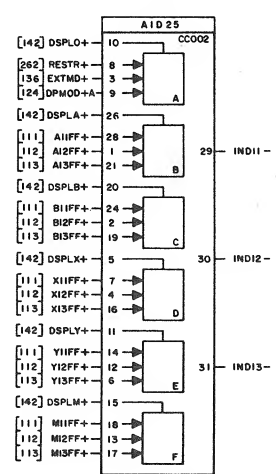
PROJECT NO. 55223

TITLE
DDP-516
CONTROL LOGIC PY

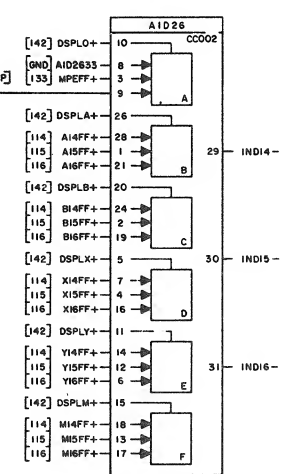
SIZE	DWG NO.	REV.
C	015754	D



[GND IF NO ML]
[GND IF NO EA]



[GND IF NO ME]



REV	DATE	BY	CHKD	APP
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2	8-8-66	B		
3	8-8-66	C		

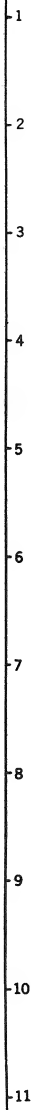
COMPUTER CONTROL COMPANY, INC.
FRAMINGHAM MASS LOS ANGELES 64 CALIF.

DR. A. KURTZER DATE 8/8/66
ENG. J. L. LAMAR 8-8-66
APP. G. L. LAMAR 8-8-66

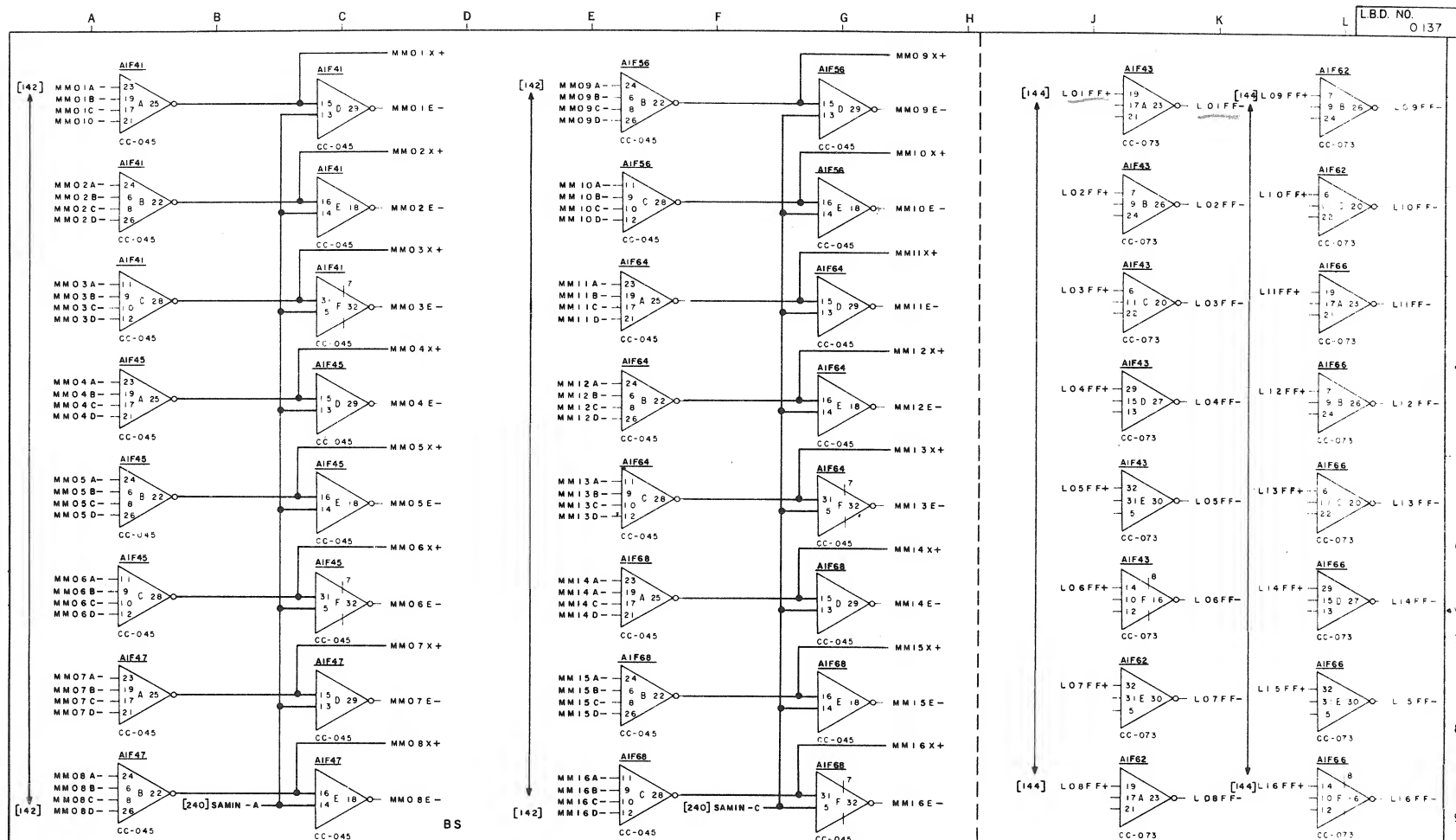
PROJECT NO. 55223

TITLE
DDP-516
CONSOLE LAMP DRIVERS

SIZE C DWG NO. 015756 REV. P



56	
SIZE	DWG NO.
C	015758

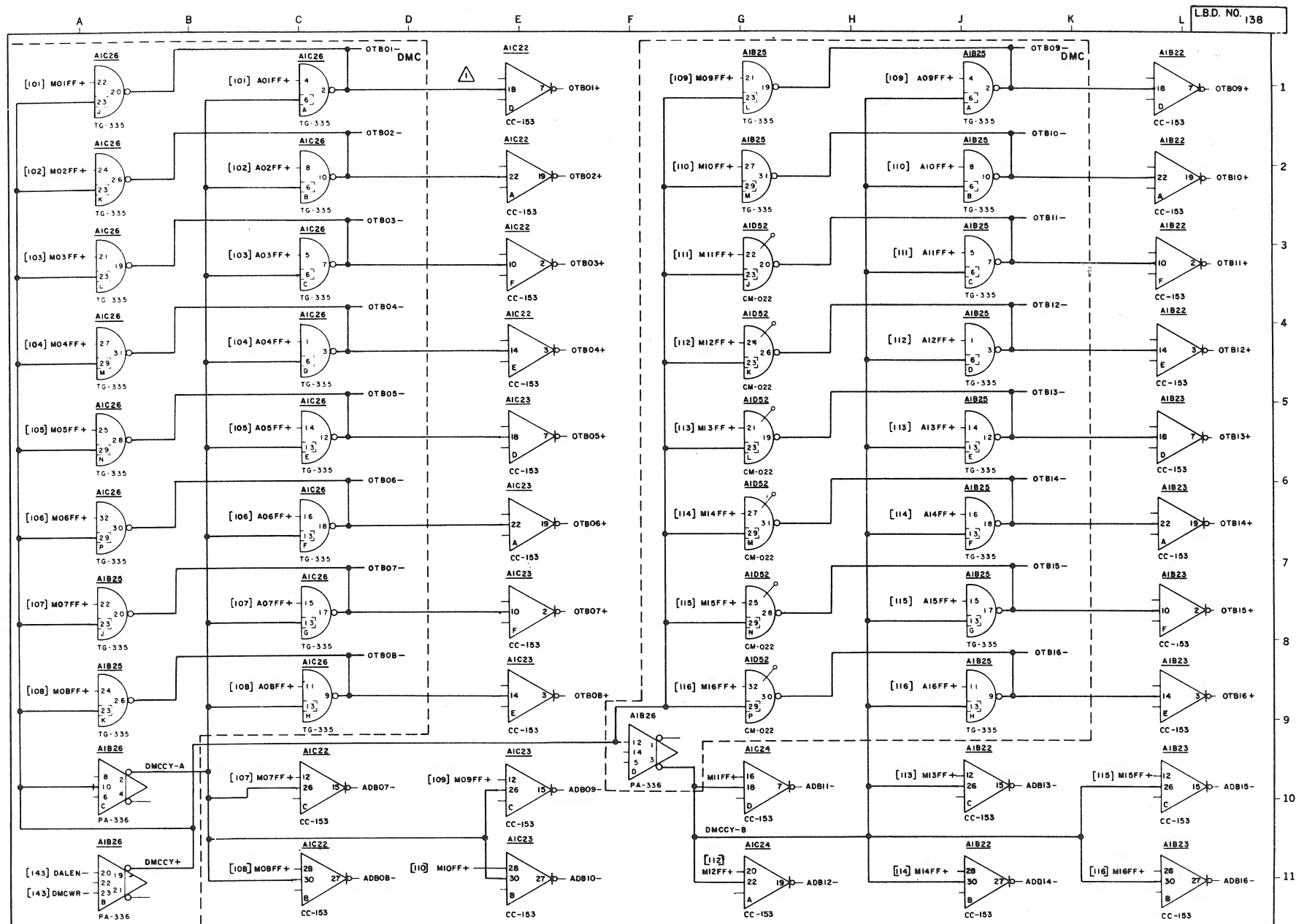


NOTE: WHEN DMA OPTION IS INSTALLED THIS DRAWING IS SUPERSEDED BY LBD 0.242 & 0.243.

REV	REVISIONS
ECO 3839	B
ECO 3839	B
ECO 3839	B

HONEYWELL
INC.
COMPUTER CONTROL DIVISION
Old Connecticut Path, Framingham, Mass.
DR. J. DOYLE
ENG. J. DOYLE
APP. J. DOYLE
PROJECT NO. 55223

TITLE
DDP-516
M REGISTER EXPANSION
DATE 10-20-66
SIZE C
DWG NO. 015760
REV. B



NOTE:

⚠ IF NO DMC ANNFF- IS CONNECTED TO OTBNN- VIA CC154 JUMPER PAC AT AIC42 (SEE LBD 0.144)

REV	REV	REV	REV	REV	REV
ECO 3704	ECO 3704	ECO 3704	ECO 3704	ECO 3704	ECO 3704
ECO 3704	ECO 3704	ECO 3704	ECO 3704	ECO 3704	ECO 3704
ECO 3704	ECO 3704	ECO 3704	ECO 3704	ECO 3704	ECO 3704
ECO 3704	ECO 3704	ECO 3704	ECO 3704	ECO 3704	ECO 3704
ECO 3704	ECO 3704	ECO 3704	ECO 3704	ECO 3704	ECO 3704

HONEYWELL
IN C.
COMPUTER CONTROL DIVISION
Old Connecticut Path, Framingham, Mass.

DR. P. J. S. 1/1/66
ENG. J. DESAMIS 8/8/66
APP. C. HENDRICK 8/8/66

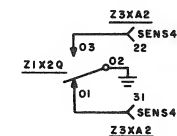
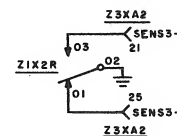
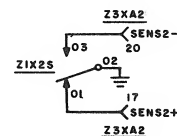
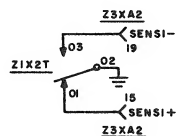
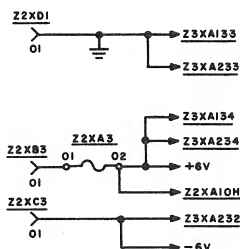
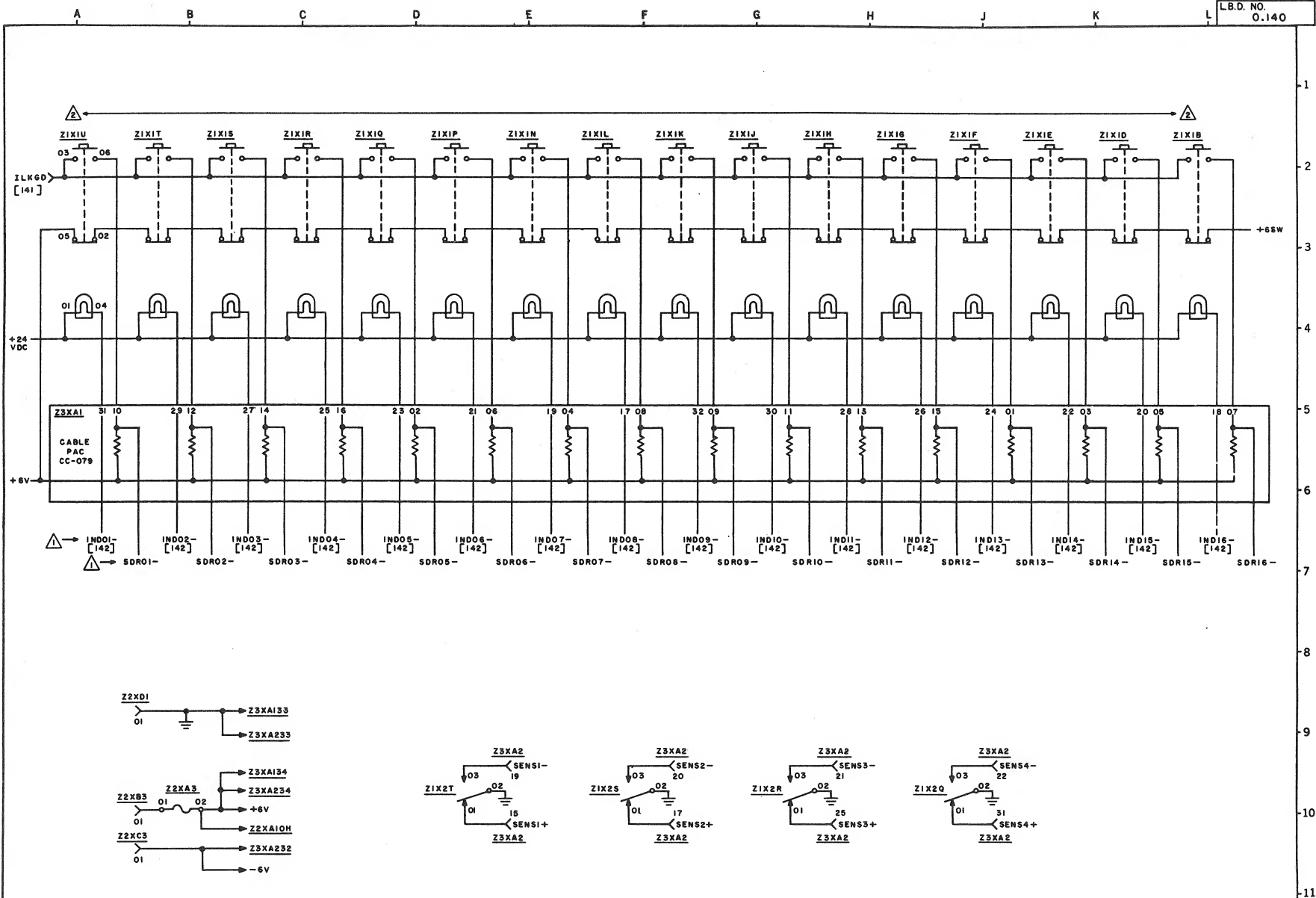
PROJECT NO. 55223

TITLE
DDP-516
OUTPUT BUSES

SIZE DWG NO.
C 015761

REV.
D

[illegible]



NOTE:

- △ EACH SIGNAL IS TWISTED WITH A GROUND AND CABLED TO M.F.
- △ PIN NUMBERS ON PUSHBUTTON-INDICATORS (ZIXIB THRU ZIXIT) SAME AS ZIXIU CODING.

REVISIONS	DATE	BY	CHKD
1	6-12-64	A	
2	7-12-66	B	

EXT. CHANGES
7/12/66

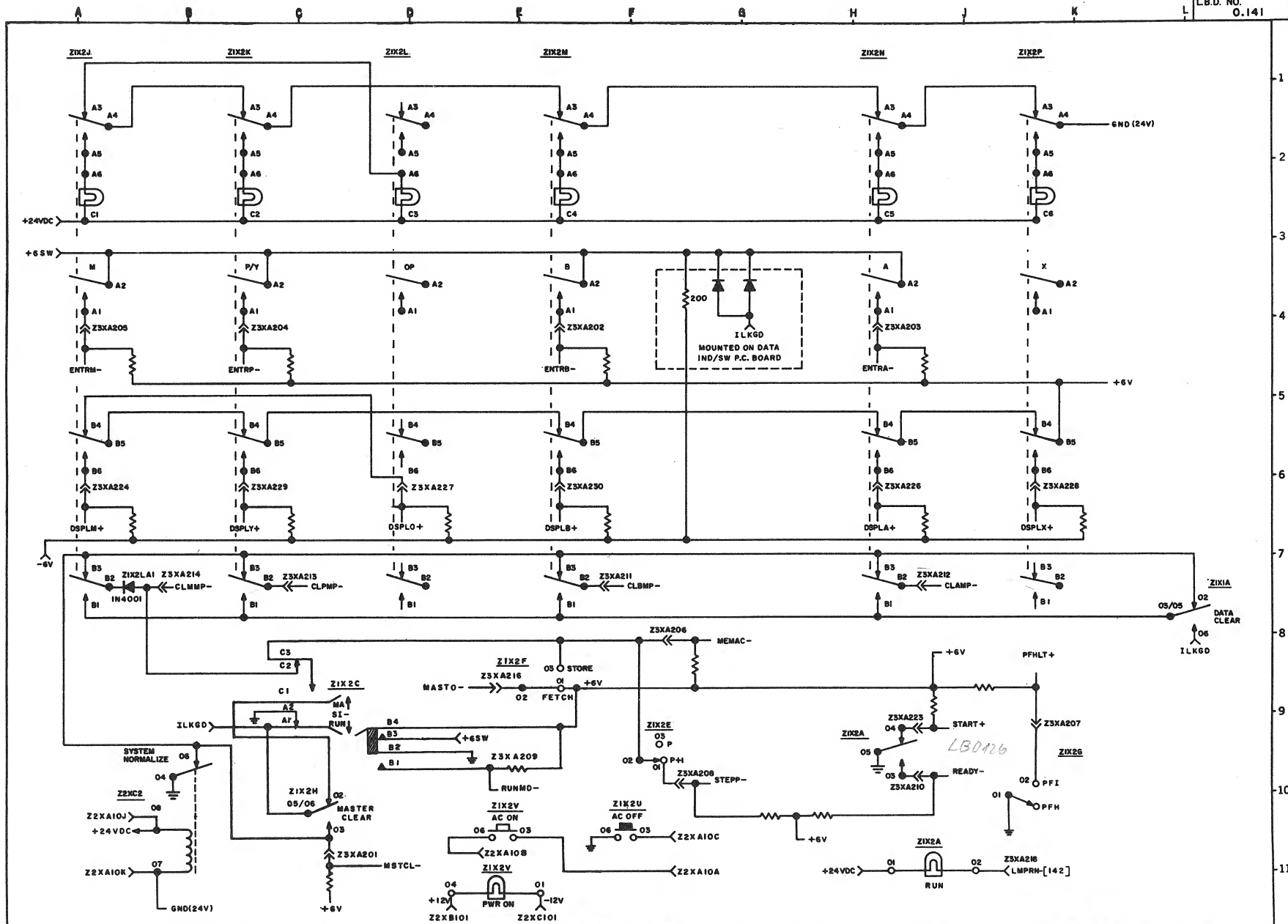


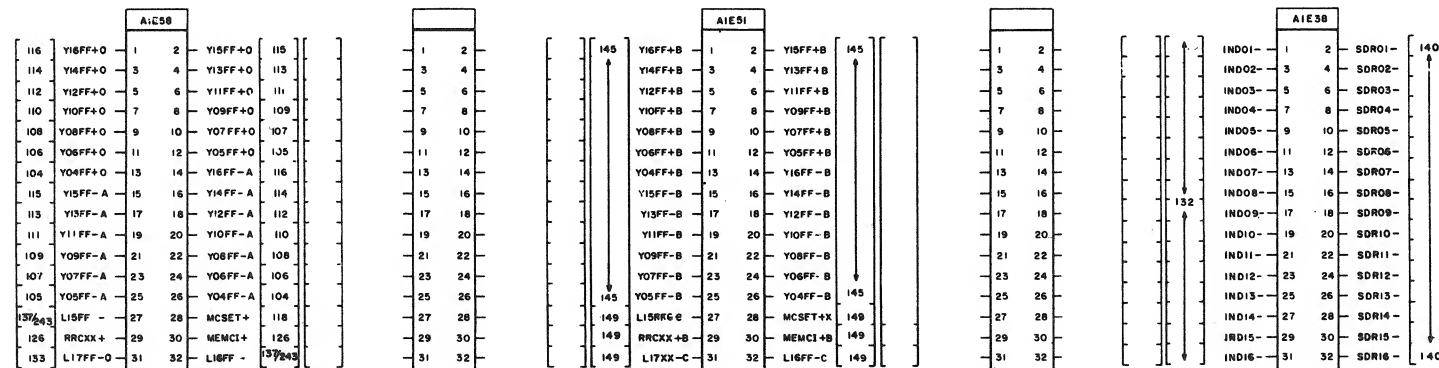
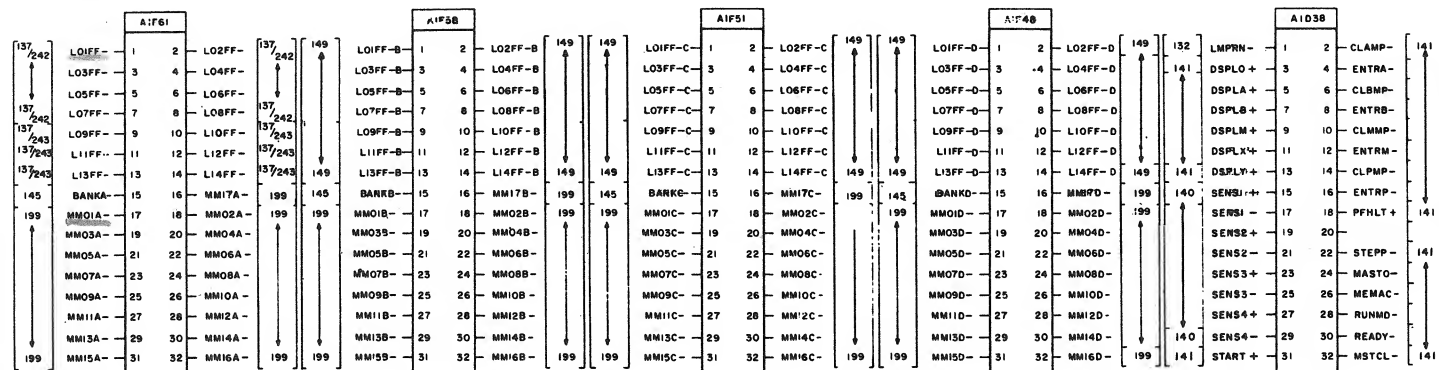
COMPUTER CONTROL COMPANY, INC.
FRANKLIN, MASS. / LOS ANGELES 64, CALIF.
DR. A. KURTZER
ENG. *[Signature]*
APR 23 1966
PROJECT NO. 55223

TITLE
DDP-516
CONSOLE INDICATORS

SIZE DWG NO. 015762

REV. B





REVISIONS
S.R. 64-1264 A
ECO 377 B
EXT CHANGES
1/23/67 E2
RCL 1/27

COMPUTER CONTROL COMPANY, INC.
FRAMINGHAM MASS. LOS ANGELES 84 CALIF.
DR. A. KURTZEN
ENG. J. J. KURTZEN
APR 1967
PROJECT NO. 59223

TITLE
DDP-516
CONSOLE AND
MEMORY CABLE
CONNECTOR
SIZE
DWG NO. 015764
REV. C

A B C D E F G H J K L

[138] OTB01+	1	2	INB01-[*]	[138] OTB09+	1	2	INB09-[*]
[*] INB02-	3	4	ADB07-[138]	[*] INB10-	3	4	ADB12-[138]
[138] ADB08-	5	6	OTB02+[138]	[138] ADB13-	5	6	OTB10+[138]
[138] OTB03+	7	8	INB03-[*]	[138] OTB11+	7	8	INB11-[*]
[*] INB04-	9	10	ADB09-[138]	[*] INB12-	9	10	ADB14-[138]
[138] ADB10-	11	12	OTB04+[138]	[138] ADB15-	11	12	OTB12+[138]
[138] OTB05+	13	14	INB05-[*]	[138] OTB13+	13	14	INB13-[*]
[*] INB06-	15	16	ADB11-[138]	[*] INB14-	15	16	ADB16-[138]
[*] DRLIN-	17	18	OTB06+[138]	[*] PILOD-	17	18	OTB14+[138]
[138] OTB07+	19	20	INB07-[*]	[138] OTB15+	19	20	INB15-[*]
[*] INB08-	21	22	PARCK-[*]	[*] INB16-	21	22	
	23	24	OTB08+[138]	[148] PWRFL-	23	24	OTB16+[138]
[134] SMKXX-	25	26	AIC2133[GND]	[134] CMKXX-	25	26	AIB2133[GND]
[134] OCPLS-	27	28	AIC2133[GND]		27	28	AIB2133[GND]
[134] SMK01-	29	30	AIC2133[GND]	[134] RRLIN-	29	30	VDC06-[-6V]
ERLXX-	31	32	AIC2133[GND]	[131] MSTCL-	31	32	VDC08-[-6V]

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PI				DMC			
[135] SMPIL+A	1	2		[138] OTB01-	1	2	INB01-[224]
[200] IG137-	3	4		[224] INB02-	3	4	YB02+[224]
[138] SMPIL+B	5	6		[224] YB03+	5	6	OTB02-[138]
[200] IG127+	7	8		[138] OTB03-	7	8	INB03-[224]
[138] SMPIL+C	9	10	IADX7-[200]	[224] INB04-	9	10	YB04+[224]
[200] IG117-	11	12	IADX6-[200]	[224] YB05+	11	12	OTB04-[138]
[134] CLPIL-	13	14	IADX5-[200]	[138] OTB05-	13	14	INB05-[224]
[200] IG117+	15	16	IADX4-[200]	[224] INB06-	15	16	YB06+[224]
[135] CLSEX-A	17	18	IADX3-[200]	[224] YB07+	17	18	OTB06-[138]
[200] IG107+	19	20	IADX1-[200]	[138] OTB07-	19	20	INB07-[224]
[135] CLSEX-B	21	22	IADX2-[200]	[224] INB08-	21	22	YB08+[224]
[200] IG077-	23	24		[224] DMCRO+	23	24	OTB08-[138]
[138] CLSEX-C	25	26		[224] DCY2X+B	25	26	DCYXX-[224]
[200] IG067+	27	28	IG063+[135]	[224] DMCRR+	27	28	DCY3X+[224]
[200] SEXR0+	29	30	IG063-[135]	[224] DMCWR-	29	30	DALEN-[224]
[138] IG063-	31	32	PIREQ+[200]	[224] ENDRG+	31	32	

[IF NO PI OPTION, SUBSTITUTE CC054]

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DMC			
[138] OTB09-	1	2	INB09-[224]
[224] INB10-	3	4	YB09+[224]
[224] YB10+	5	6	OTB10-[138]
[138] OTB11-	7	8	INB11-[224]
[224] INB12-	9	10	YB11+[224]
[224] YB12+	11	12	OTB12-[138]
[138] OTB13-	13	14	INB13-[224]
[224] INB14-	15	16	YB13+[224]
[224] YB14+	17	18	OTB14-[138]
[138] OTB15-	19	20	INB15-[224]
[224] INB16-	21	22	YB15+[224]
[224] YB16+	23	24	OTB16-[138]
[118] TL1FF+	25	26	EOINS+[119]
[118] TL2FF+A	27	28	MCSET+B[118]
[118] TL3FF+	29	30	TL4FF+A[118]
[142] MSTCL-	31	32	

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[*] THESE SIGNALS ARRIVE BY BUS FROM I/O OPTIONS, DEPENDING ON SYSTEM CONFIGURATION

REV. 1	ECO 3767	EXT CHANGES	1/23/87 J.D.
RCL 1/27			

DR. A. KURTZER	DATE 8/4/88
APP. [Signature]	DATE 8/16/88
PROJECT NO. 55223	

TITLE	DDP-516 I-O CABLE CONNECTORS
SIZE	C
DWG NO.	015765
REV.	15

A B C D E F G H J K L

AIES7				AIES2							
[42]	MM09A-	1	2	MM09B-	[42]	[42]	MM01A-	1	2	MM01B-	[42]
	MM09E-	3	4	MM09F-			MM01E-	3	4	MM01F-	
[42]	MM10A-	5	6	MM10B-	[42]	[42]	MM02A-	5	6	MM02B-	[42]
	MM10E-	7	8	MM10F-			MM02E-	7	8	MM02F-	
[42]	MM11A-	9	10	MM11B-	[42]	[42]	MM03A-	9	10	MM03B-	[42]
	MM11E-	11	12	MM11F-			MM03E-	11	12	MM03F-	
[42]	MM12A-	13	14	MM12B-	[42]	[42]	MM04A-	13	14	MM04B-	[42]
	MM12E-	15	16	MM12F-			MM04E-	15	16	MM04F-	
[42]	MM13A-	17	18	MM13B-	[42]	[42]	MM05A-	17	18	MM05B-	[42]
	MM13E-	19	20	MM13F-			MM05E-	19	20	MM05F-	
[42]	MM14A-	21	22	MM14B-	[42]	[42]	MM06A-	21	22	MM06B-	[42]
	MM14E-	23	24	MM14F-			MM06E-	23	24	MM06F-	
[42]	MM15A-	25	26	MM15B-	[42]	[42]	MM07A-	25	26	MM07B-	[42]
	MM15E-	27	28	MM15F-			MM07E-	27	28	MM07F-	
[42]	MM16A-	29	30	MM16B-	[42]	[42]	MM08A-	29	30	MM08B-	[42]
	MM16E-	31	32	MM16F-			MM08E-	31	32	MM08F-	
CC054				CC054							

CC054

CC054

REMOVE THESE JUMPERS IF BS OR DMA

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AIF52				AIC42					
[101]	MO1FF+ LO1FF+	1 3	2 4	MO2FF+	[102]	[101] AO1FF- OTB01-	1 3	2 4	AO2FF- [102] OTB02-
[103]	MO3FF+ LO3FF+	5 7	6 8	MO4FF+	[104]	[103] AO3FF- OTB03-	5 7	6 8	AO4FF- [104] OTB04-
[105]	MO5FF+ LO5FF+	9 11	10 12	MO6FF+ LO6FF+	[106]	[105] AO5FF- OTB05-	9 11	10 12	AO6FF- [106] OTB06-
[107]	MO7FF+ LO7FF+	13 15	14 16	MO8FF+ LO8FF+	[108]	[107] AO7FF- OTB07-	13 15	14 16	AO8FF- [108] OTB08-
[109]	MO9FF+ LO9FF+	17 19	18 20	MO10FF+ LO10FF+	[110]	[109] AO9FF- OTB09-	17 19	18 20	AO10FF- [110] OTB10-
[111]	MO11FF+ LO11FF+	21 23	22 24	MO12FF+ LO12FF+	[112]	[111] AO11FF- OTB11-	21 23	22 24	AO12FF- [112] OTB12-
[113]	MO13FF+ LO13FF+	25 27	26 28	MO14FF+ LO14FF+	[114]	[113] AO13FF- OTB13-	25 27	26 28	AO14FF- [114] OTB14-
[115]	MO15FF+ LO15FF+	29 31	30 32	MO16FF+ LO16FF+	[116]	[115] AO15FF- OTB15-	29 31	30 32	AO16FF- [116] OTB16-

CC054

CC054

REMOVE JUMPER
IF DMAREMOVE JUMPER
IF DMC

REVISIONS

S.R. 84-1284 A

COMPUTER CONTROL COMPANY, INC.

FRAMINGHAM MASS. LOS ANGELES CALIF.

DR. A. KURTZER

ENG. *[Signature]* DATE 8/4/66

APP. *[Signature]* 8/6/66

PROJECT NO. 95223

TITLE

DDP-516

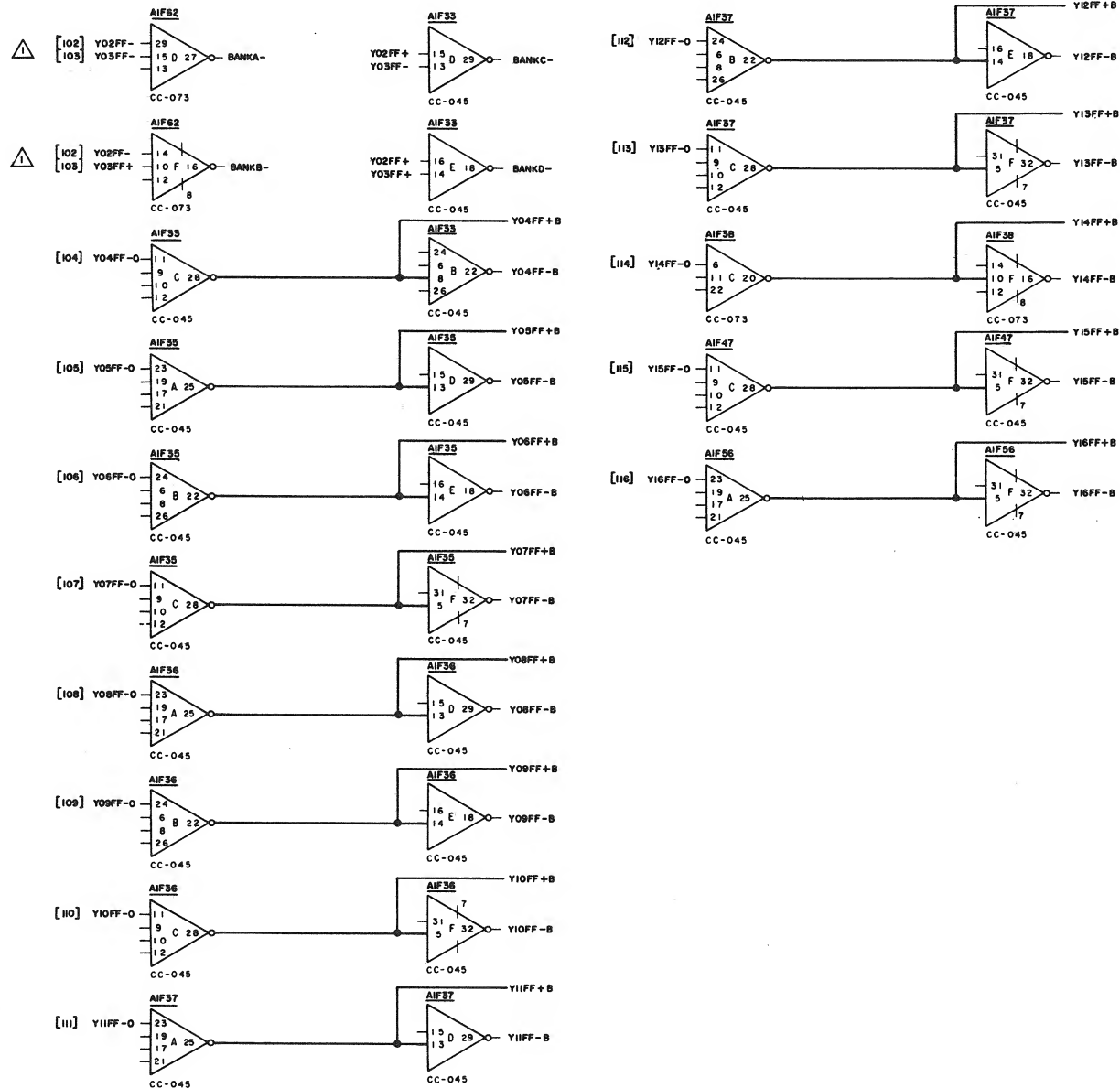
OPTION JUMPERS

SIZE DWG NO.

C 015766

REV.

A



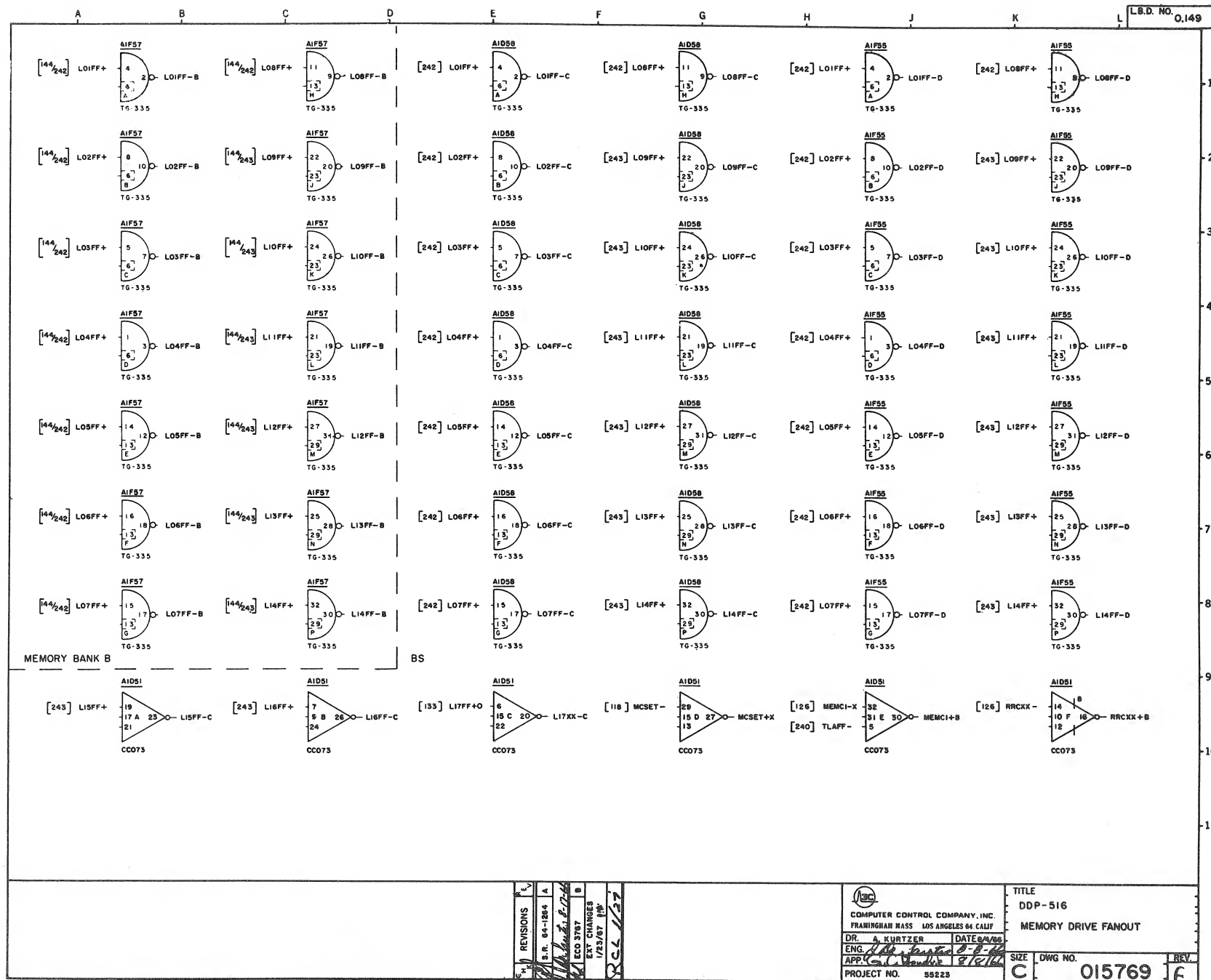
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R	ECO 4720
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CR	ECO 4798
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CU	ECO 4801
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CX	ECO 4804
CY	ECO 4805
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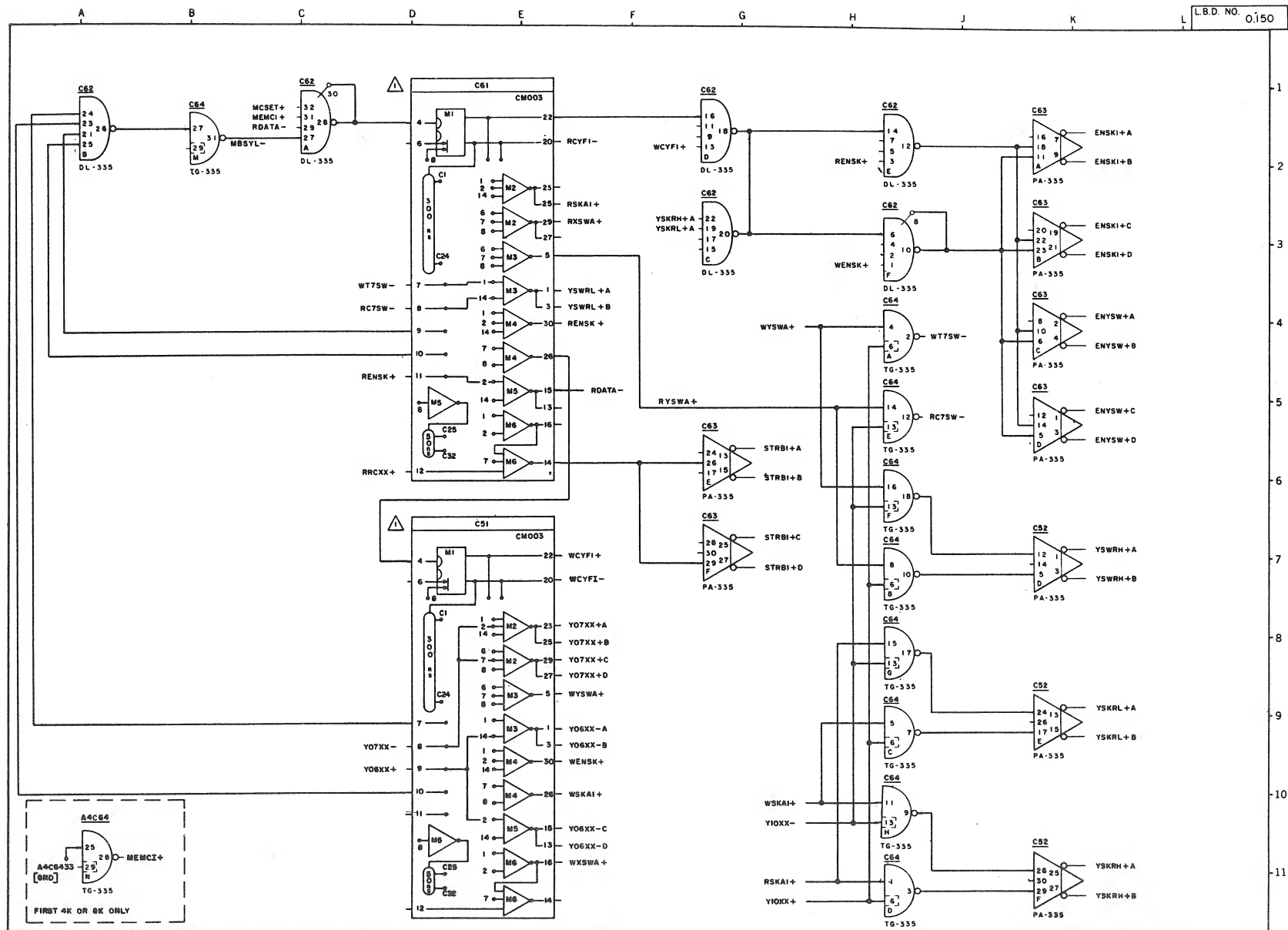
HONEYWELL
 INC.
 COMPUTER CONTROL DIVISION
 Old Connecticut Path, Framingham, Mass.

DR. *G. X. [Signature]* DATE 9/4/68
 ENG. *J. [Signature]*
 APP. *G. C. Hendon*
 PROJECT NO. 55223

TITLE
 DDP-516
 Y-REGISTER EXPANSION

SIZE C DWG NO. 015767 REV. C



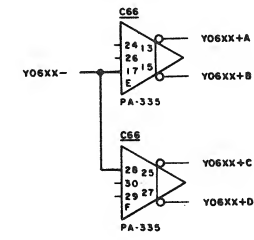
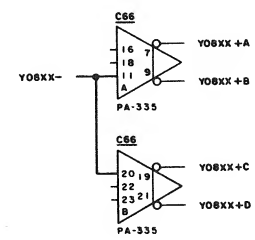
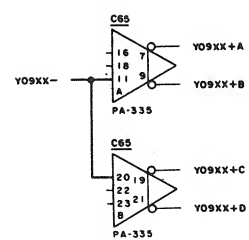
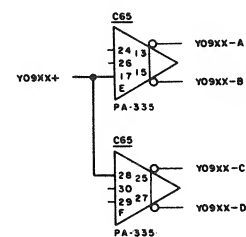
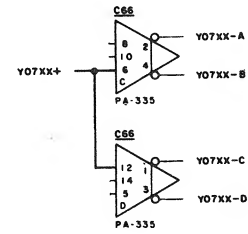
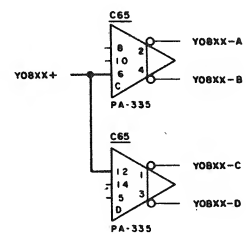
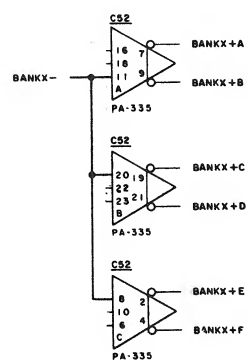


SEE DWS NO. A009705XXX FOR TYPICAL TIMING DISTRIBUTER (CM003) TAP WIRING

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COMPUTER CONTROL COMPANY, INC.
FRAMINGHAM MASS / LOS ANGELES 94 CALIF
DR: A. KURTZER
ENG: W. KURTZER
APR 1976
PROJECT NO. 55217

TITLE
TIMING & CONTROL
DATE: 8/1/76
SIZE: C
DWG NO.: 015415
REV: D



REV	REVISIONS
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27	REVISIONS
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42	REVISIONS
43	REVISIONS
44	REVISIONS
45	REVISIONS
46	REVISIONS
47	REVISIONS
48	REVISIONS
49	REVISIONS
50	REVISIONS

COMPUTER CONTROL COMPANY, INC.

 FRAMINGHAM MASS 01901 LOS ANGELES 94 CALIF

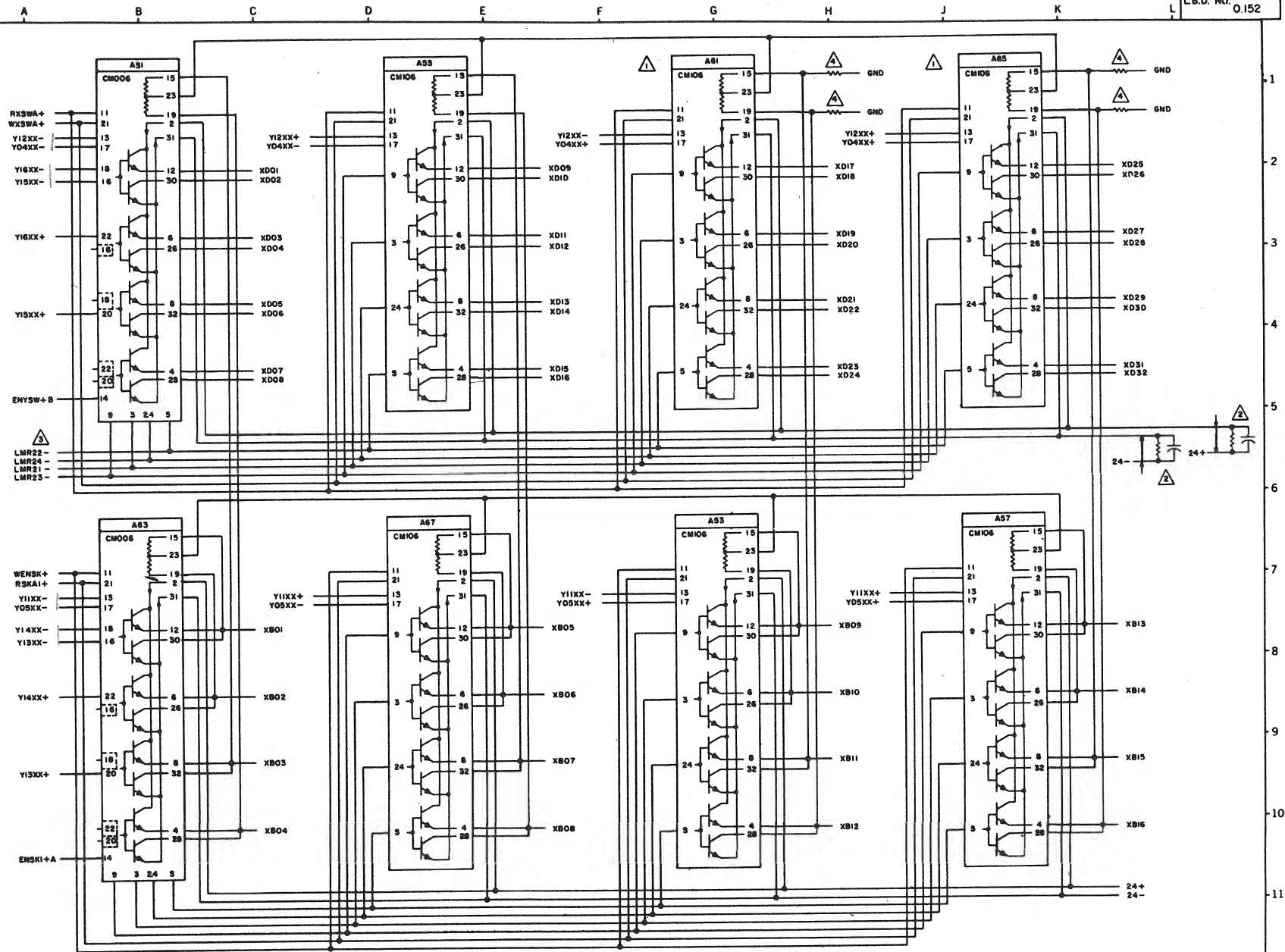
 DR. A. KURTZER DATE 8/11/66

 ENG. R. W. FLETCHER 8/11/66

 APP. J. W. FLETCHER 8/11/66

 PROJECT NO. 55217

TITLE	
ADDRESS BUFFER	
SIZE	DWG NO.
C	015416
REV	REV
A	A



- △ FOR 4096 WORD MEMORY DELETE CM106'S IN PAC LOCATIONS A55 & A51
- △ 5 WATT RESISTOR & CAP (MOUNTED ON RESISTOR PLATE)
- △ 1/4 WATT RESISTOR (MOUNTED ON BACK PLANE)
- △ 1/4 WATT RESISTOR (MOUNTED ON BACK PLANE) ON 4096 WORD MODULE

REV	DATE	BY	CHK
1	8/1/66	A	
2	8/1/66	B	
3	8/1/66	C	
4	8/1/66	D	
5	8/1/66	E	
6	8/1/66	F	
7	8/1/66	G	
8	8/1/66	H	
9	8/1/66	I	
10	8/1/66	J	
11	8/1/66	K	
12	8/1/66	L	
13	8/1/66	M	
14	8/1/66	N	
15	8/1/66	O	
16	8/1/66	P	
17	8/1/66	Q	
18	8/1/66	R	
19	8/1/66	S	
20	8/1/66	T	
21	8/1/66	U	
22	8/1/66	V	
23	8/1/66	W	
24	8/1/66	X	
25	8/1/66	Y	
26	8/1/66	Z	

COMPUTER CONTROL COMPANY, INC.
FRANINGHAM MASS / LOS ANGELES 44 CALIF

DR. A. KURTZER DATE 8/1/66

ENG. R. W. FLETCHER 8/1/66

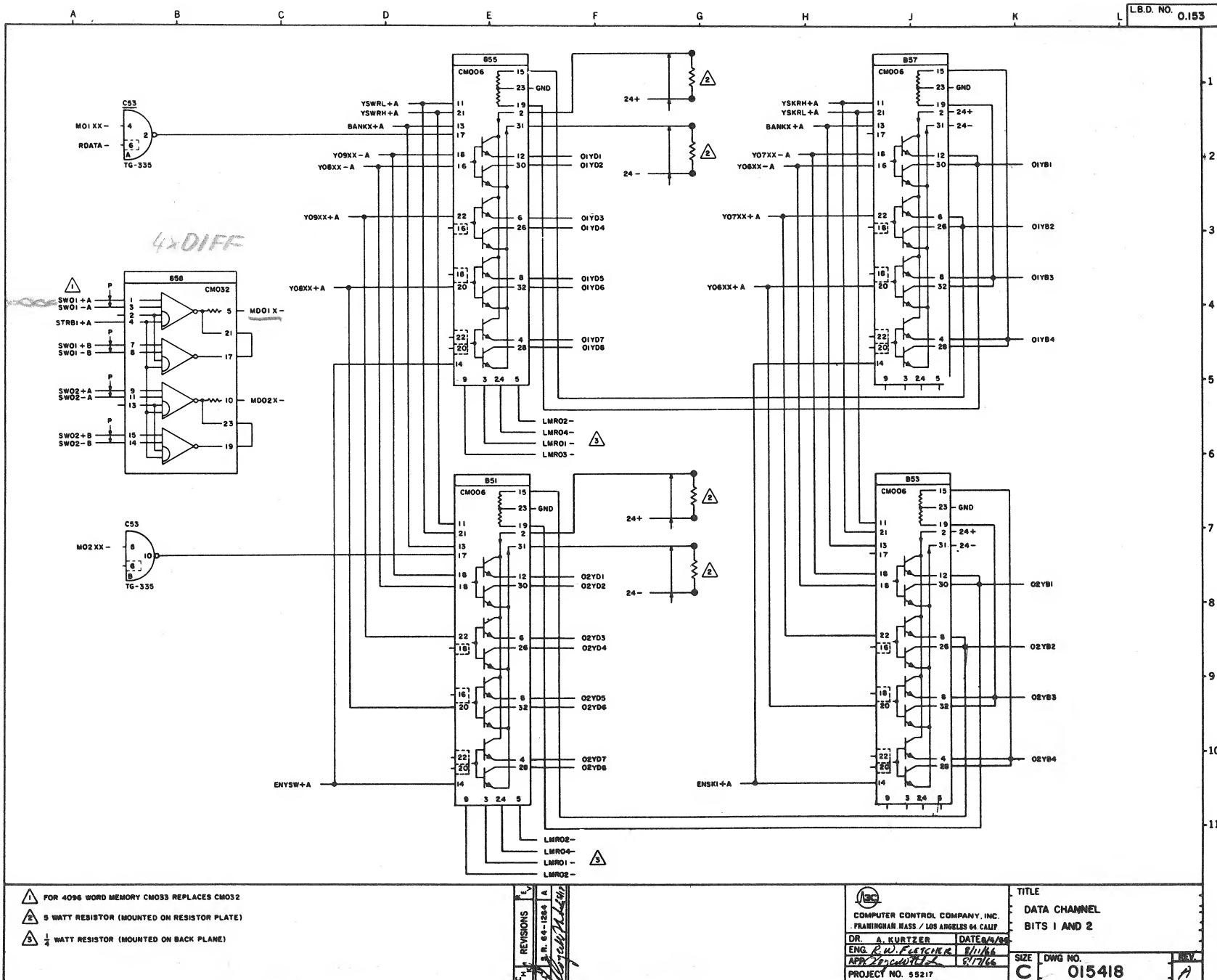
APP. J. W. FLETCHER 8/1/66

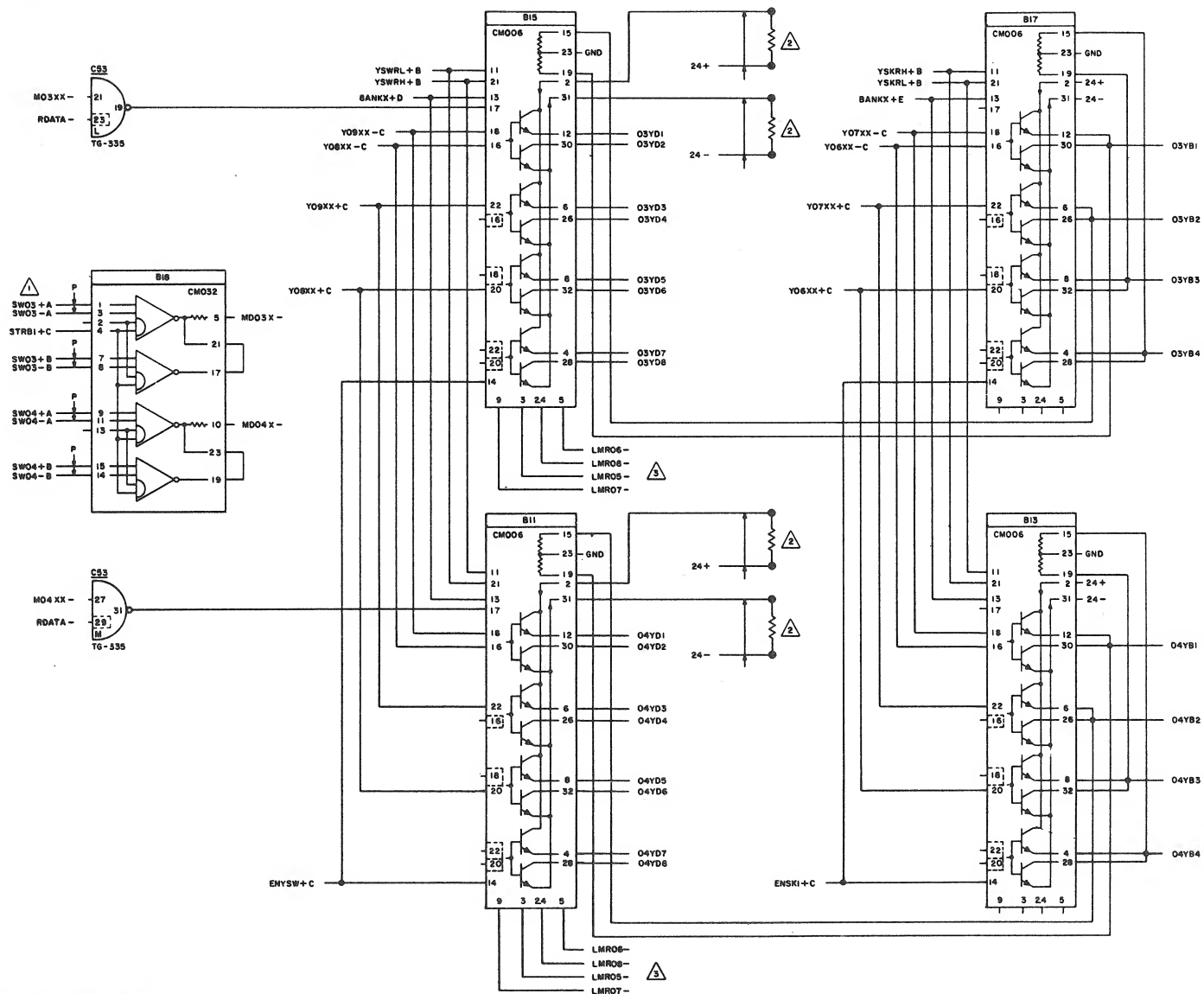
PROJECT NO. 55217

TITLE
X DECODING AND
SELECTION

SIZE DWG NO.
C 015417

REV.
B





- 1 FOR 4096 WORD MEMORY CMO33 REPLACES CMO32
- 2 5 WATT RESISTOR (MOUNTED ON RESISTOR PLATE)
- 3 $\frac{1}{4}$ WATT RESISTOR (MOUNTED ON BACK PLANE)

C _H ✓	REVISIONS	R _E V
A	S.R. 64-1284	A
Donnell 8/17		

ЛЭО

COMPUTER CONTROL COMPANY, INC.
FRAMINGHAM MASS LOS ANGELES 64 CALIF

DR. A. KURTZER	DATE 8/4/
----------------	-----------

ENG. A. C. FLETCHER	8/11/66
APP. J. M. B. B. B.	5/17/66

PROJECT NO. 55217

TITLE

DATA CHANNEL

BITS 3 AND 4

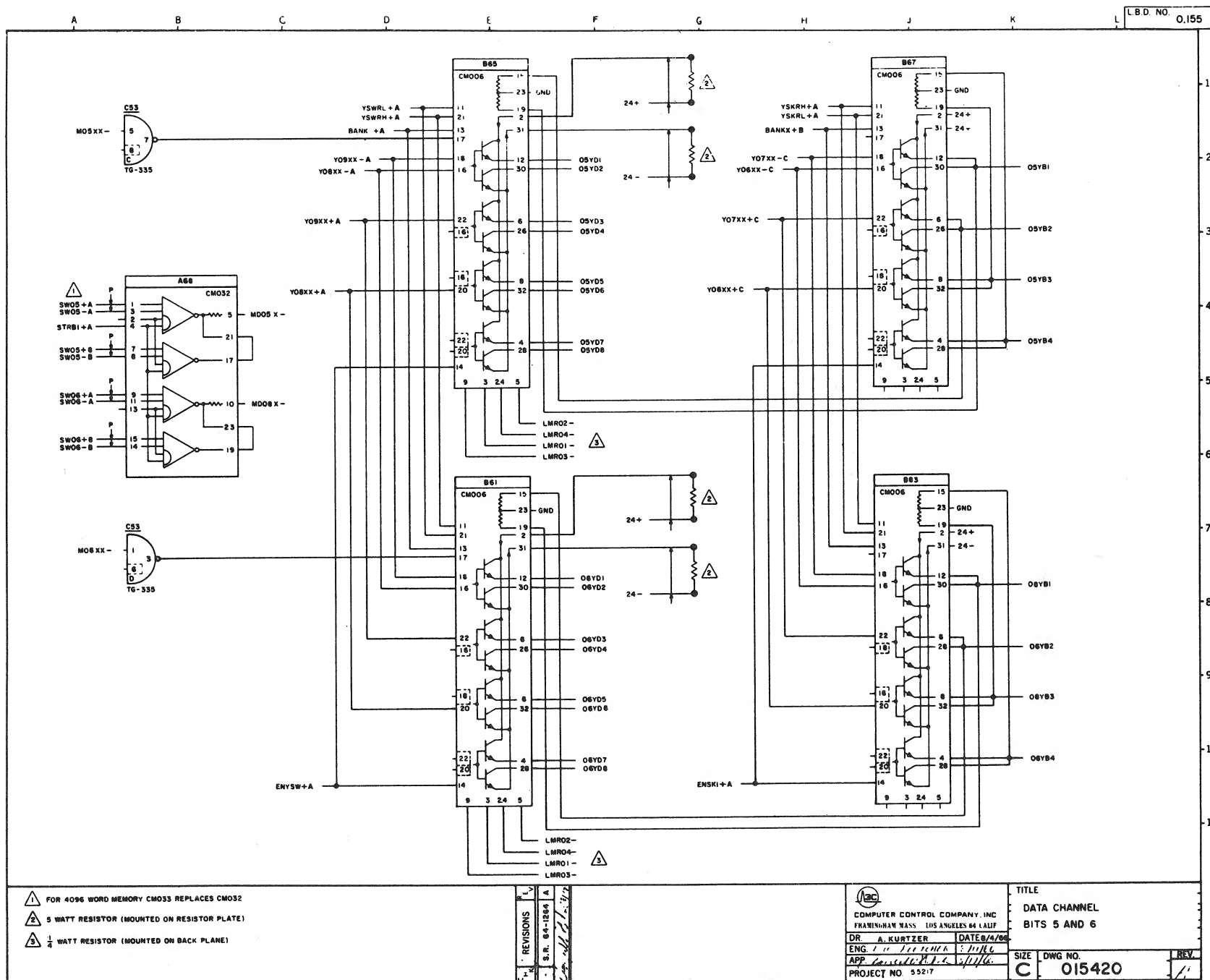
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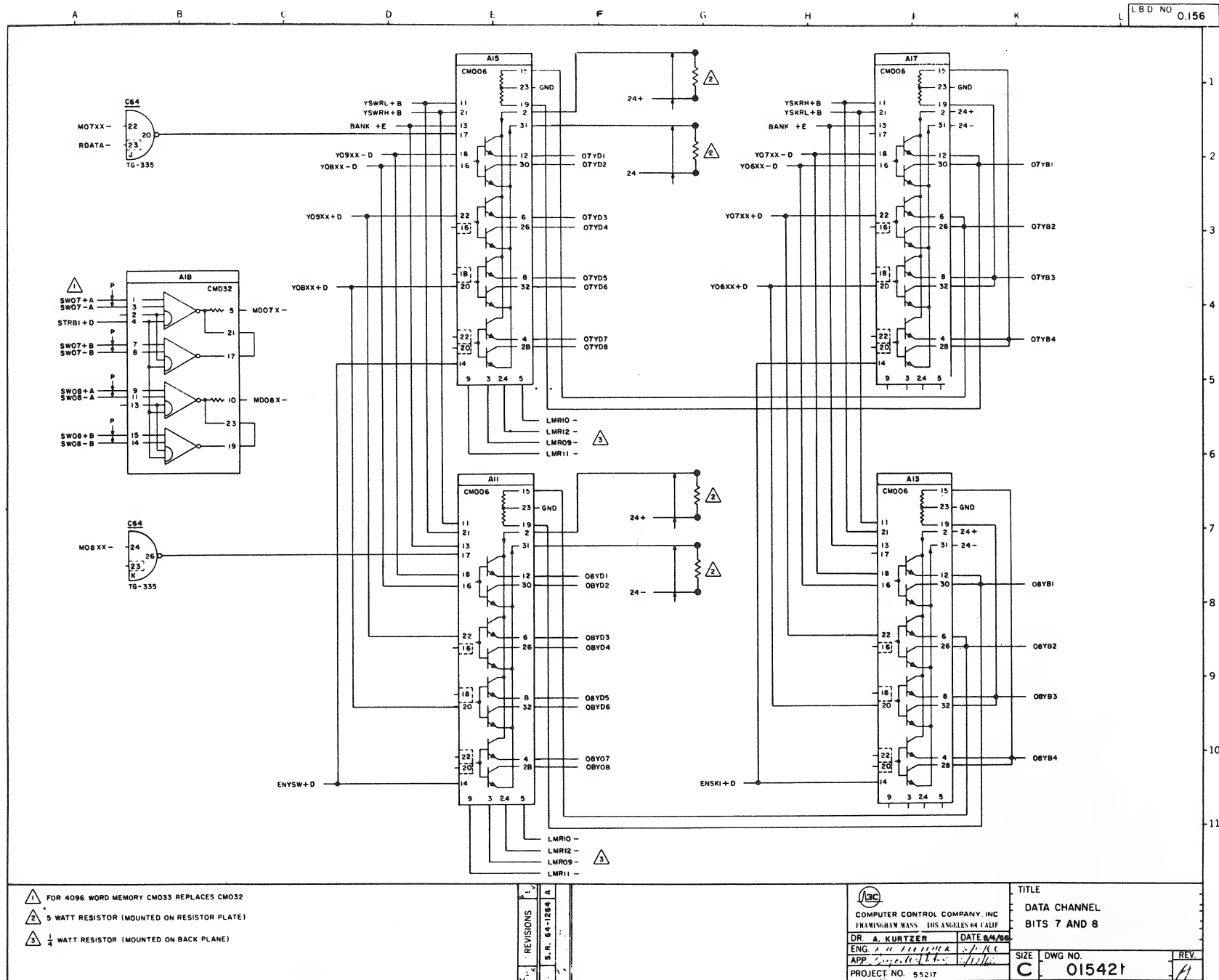
SIZE	DWG NO.
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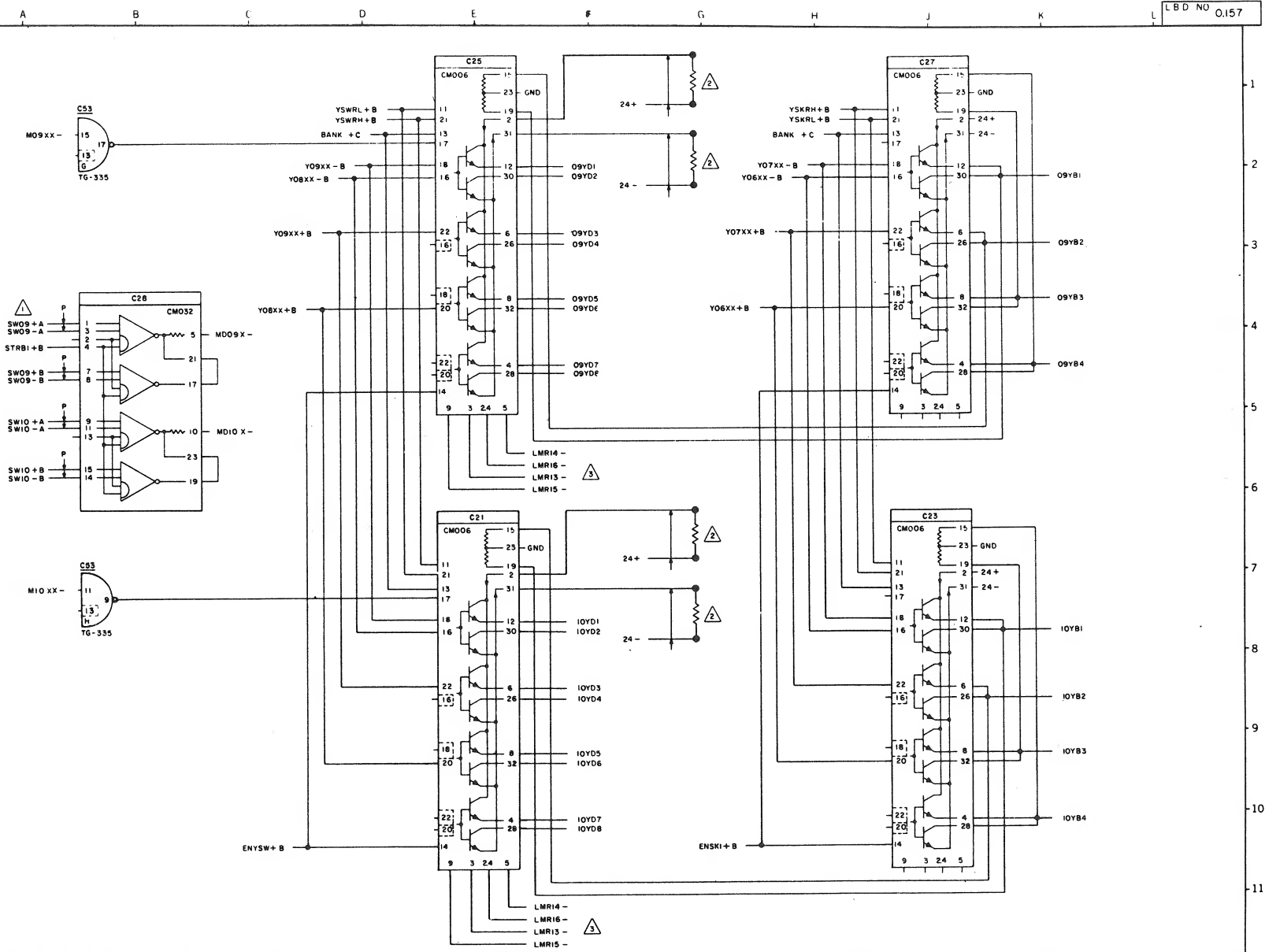
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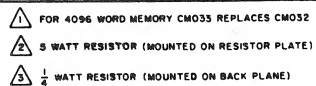
FIG NO.
015419

REV
A

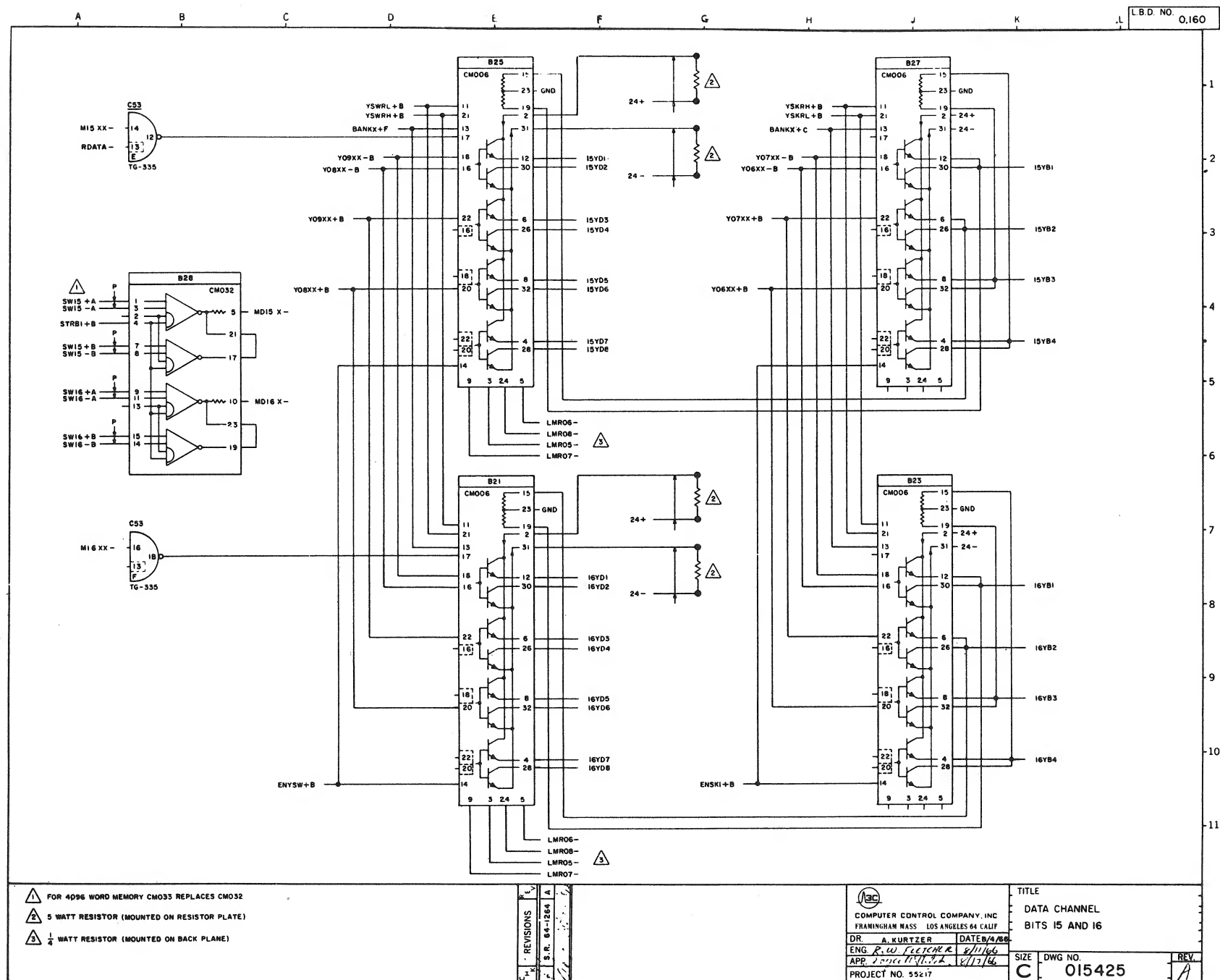


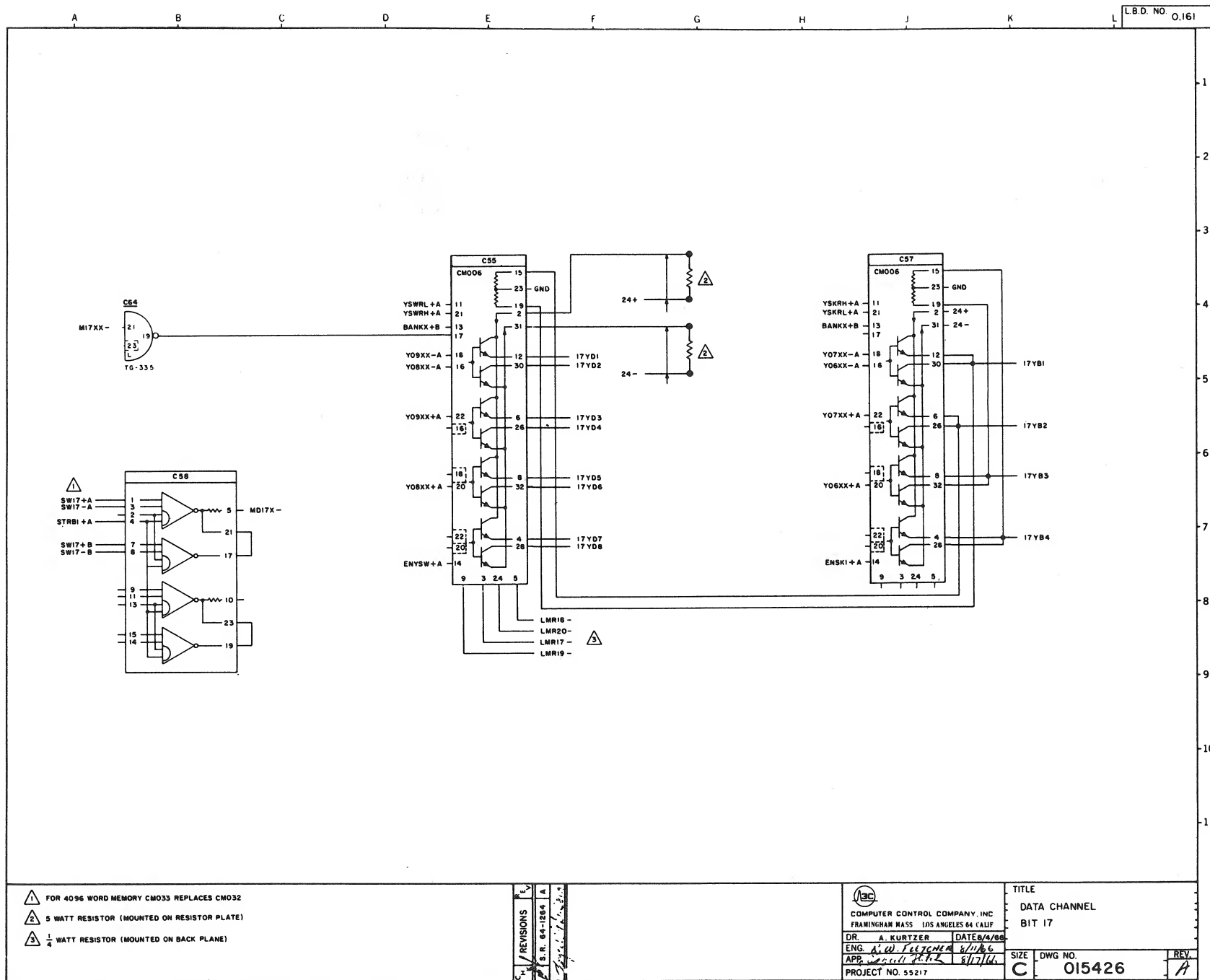


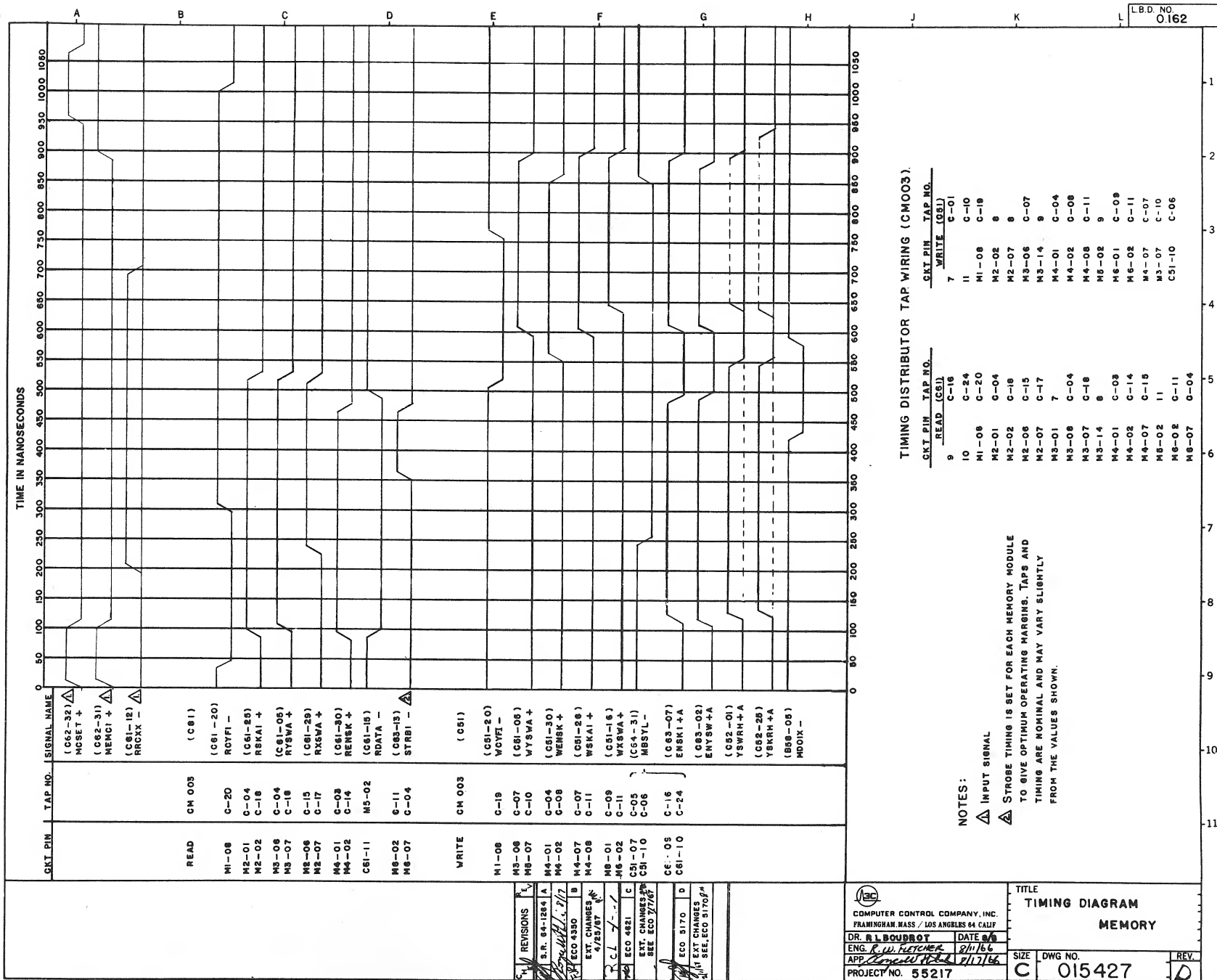




REV.	1
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	C67	
	1	M01XX-
	2	M02XX-
	3	M03XX-
	4	M04XX-
	5	M05XX-
	6	M06XX-
	7	M07XX-
	8	M08XX-
	9	M09XX-
	10	M10XX-
	11	M11XX-
	12	M12XX-
	13	M13XX-
	14	M14XX-
	15	BANKX-
MD17X-	16	
MD01X-	17	
MD02X-	18	
MD03X-	19	
MD04X-	20	
MD05X-	21	
MD06X-	22	
MD07X-	23	
MD08X-	24	
MD09X-	25	
MD10X-	26	
MD11X-	27	
MD12X-	28	
MD13X-	29	
MD14X-	30	
MD15X-	31	
MD16X-	32	

	B68			C68	
1		1		1	Y16XX+
2		2		2	Y15XX+
3		3		3	Y14XX+
4		4		4	Y13XX+
5		5		5	Y12XX+
6		6		6	Y11XX+
7		7		7	Y10XX+
8		8		8	Y09XX+
9		9		9	Y08XX+
10		10		10	Y07XX+
11		11		11	Y06XX+
12		12		12	Y05XX+
13		13		13	Y04XX+
14		14		14	Y16XX-
15		15		15	Y15XX-
16		16		16	Y14XX-
17		17		17	Y13XX-
18		18		18	Y12XX-
19		19		19	Y11XX-
20		20		20	Y10XX-
21		21		21	Y09XX-
22		22		22	Y08XX-
23		23		23	Y07XX-
24		24		24	Y06XX-
25		25		25	Y05XX-
26		26		26	Y04XX-
27		27		27	M15XX-
28		28		28	MCSET+
29		29		29	RRCKX+
30		30		30	MEMCI+
31		31		31	M17XX-
32		32		32	M16XX-

REVISIONS	
S.R. 64-1264	A

COMPUTER CONTROL COMPANY, INC.	
PRAMINGHAM MASS. / LOS ANGELES 64 CALIF.	
DR. A. KURTZER	DATE 6/1/66
ENG. A. J. FETTER	5/17/66
APP. S. J. FETTER	5/17/66
PROJECT NO. 55217	

TITLE	MEMORY I/O CABLES
SIZE	DWG NO.
C	015428
REV.	A

L.B.D. NO.
0.345

4

LOC	PAC	A	B	C	D	E	F	G	H	J	K	L	M	N	P
8															
7															
6															
5															
4															
3															
2															
1															

LOC	PAC	A	B	C	D	E	F	G	H	J	K	L	M	N	P
8															
7															
6															
5															
4															
3															
2															
1															

LOC	PAC	A	B	C	D	E	F	G	H	J	K	L	M	N	P
8															
7															
6															
5															
4															
3															
2															
1															

3

LOC	PAC	A	B	C	D	E	F	G	H	J	K	L	M	N	P
8															
7															
6															
5															
4															
3															
2															
1															

LOC	PAC	A	B	C	D	E	F	G	H	J	K	L	M	N	P
8															
7															
6															
5															
4															
3															
2															
1															

LOC	PAC	A	B	C	D	E	F	G	H	J	K	L	M	N	P
8															
7															
6															
5															
4															
3															
2															
1															

2

LOC	PAC	A	B	C	D	E	F	G	H	J	K	L	M	N	P
8															
7															
6															
5															
4															
3															
2															
1															

LOC	PAC	A	B	C	D	E	F	G	H	J	K	L	M	N	P
8															
7															
6															
5															
4															
3															
2															
1															

LOC	PAC	A	B	C	D	E	F	G	H	J	K	L	M	N	P
8															
7															
6															
5															
4															
3															
2															
1															

1

LOC	PAC	A	B	C	D	E	F	G	H	J	K	L	M	N	P
8	DI-335	X	X	X	X	X	X	X	X	X	X	X			
7	DN-335	X	X	X	X	X	X	X	X	X	X	X			
6	CC057	X													
5															
4	CC059	X	X	X	X										
3	CC074	X													
2															
1															

LOC	PAC	A	B	C	D	E	F	G	H	J	K	L	M	N	P
8	CONN														
7	CC-152	X	X	X	X	X	X	X	X	X	X	X	X	X	X
6	CC059	X	X	X	X										
5	PA-336	X	X	X	X	X									
4	CC059	X	X	X	X										
3	DC-335	X	X	X	X	X	X								
2	TE-335	X	X	X	X	X	X	X	X	X	X	X	X	X	X
1	CONN														

LOC	PAC	A	B	C	D	E	F	G	H	J	K	L	M	N	P
8	CONN														
7	DI-335	X	X	X	X	X	X	X	X	X	X	X			
6	CC055	X	X	X											
5	CC059	X	X	X	X										
4	DL-335	X	X	X	X	X									
3	DN-335	X	X	X	X	X									
2	TE-335	X	X	X	X	X	X	X	X	X	X	X	X	X	X
1	CONN														

A

B

C

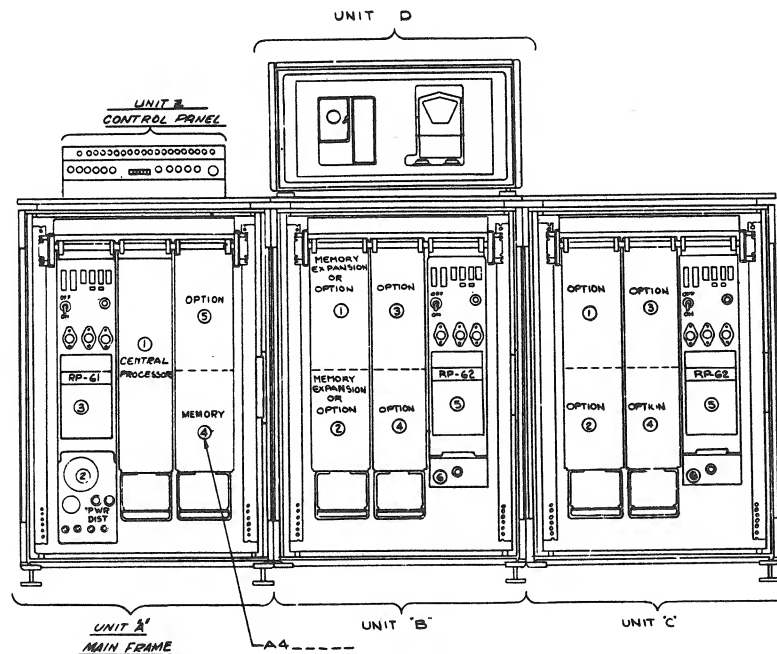
REF. PAC COMP. A015653

LOCATION XX

REVISIONS	EXT CHANGES	EXT CHANGES	EXT CHANGES	EXT CHANGES	EXT CHANGES
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2	ECO 404	ECO 404	ECO 404	ECO 404	ECO 404
3	ECO 404	ECO 404	ECO 404	ECO 404	ECO 404
4	ECO 404	ECO 404	ECO 404	ECO 404	ECO 404
5	ECO 404	ECO 404	ECO 404	ECO 404	ECO 404
6	ECO 404	ECO 404	ECO 404	ECO 404	ECO 404
7	ECO 404	ECO 404	ECO 404	ECO 404	ECO 404
8	ECO 404	ECO 404	ECO 404	ECO 404	ECO 404
9	ECO 404	ECO 404	ECO 404	ECO 404	ECO 404
10	ECO 404	ECO 404	ECO 404	ECO 404	ECO 404
11	ECO 404	ECO 404	ECO 404	ECO 404	ECO 404

DR.	DATE
DR. T. THAYER	DATE
ENG. J. J. J.	DATE
APP. J. J. J.	DATE
PROJECT NO. 98242	

TITLE	SIZE	DWG NO.	REV
PAC ALLOCATION	C	015654	D
ASR 33/35			
DOP-516-56			



ALPHA SEQUENCE
 ABCDEFGHIJKLMNOPQRSTUVWXYZ
 NUMERICAL SEQUENCE
 0123456789

UNIT AREA ZONE ROW COL PIN
 1 1 1 1 1 1
 'X' INDICATES AN UNUSED DIGIT.
 UNIT & AREA CODE DESIGNATIONS ARE VARIABLE
 AND WILL BE ASSIGNED PER INDIVIDUAL UNIT
 CODING SHEET

REVISIONS					
REV	DESCRIPTION	DATE	APP BY	DATE	
C	REDRAWN/ECO 1-3-67 1/27/67	1/27/67	FM	TP	BA
D	ADDED VIEW CONTAINING STANDARD 1.5% OF ON 3 PER ECO 1557	1/27/67	FM	TP	BA
E	EXTENSIVE CHG'S PER ECO 3643	1/27/67	FM	TP	BA
F	EXTENSIVE CHG'S/ECO 3647 8-18-67	8-18-67	FM	TP	BA
G	EXTENSIVE CHG'S/ECO 3700 8-18-67	8-18-67	FM	TP	BA
H	EXTENSIVE CHG'S/ECO 3738 12-2-67	12-2-67	FM	TP	BA
I	EXTENSIVE CHG'S/ECO 3863 8-18-67	8-18-67	FM	TP	BA
J	EXTENSIVE CHG'S/ECO 4052 12-2-67	12-2-67	FM	TP	BA
K	ADD C1 DES TO SHEET 41 ECO 4048 8-18-67	8-18-67	FM	TP	BA
L	ADDED DIRECT, DELETED CE TOP VIEW SH. 8/ECO 4389 8-18-67	8-18-67	FM	TP	BA
M	EXT CHG'S PER ECO 4328 8-18-67	8-18-67	FM	TP	BA
N	EXT CHG'S PER ECO 4393 7-24-67	7-24-67	FM	TP	BA
P	EXT CHG'S SHT 2 PER ECO 4263 5-8-67	5-8-67	FM	TP	BA
R	SHT 3 CODING A26DI WAS A26DIF A26DIOS WAS A26DIF PER ECO 4403 5-8-67	5-8-67	FM	TP	BA
S	EXT CHG'S SHT 8 PER ECO 4645 8-18-67	8-18-67	FM	TP	BA
T	EXT CHG'S SHT 2 & 3 PER ECO 4169 12-2-67	12-2-67	FM	TP	BA
U	CHG'D PIN LOC. SHG. 7/ECO 5091	12-2-67	FM	TP	BA
V	EXT CHG'S/ ECO 5222	12-2-67	FM	TP	BA

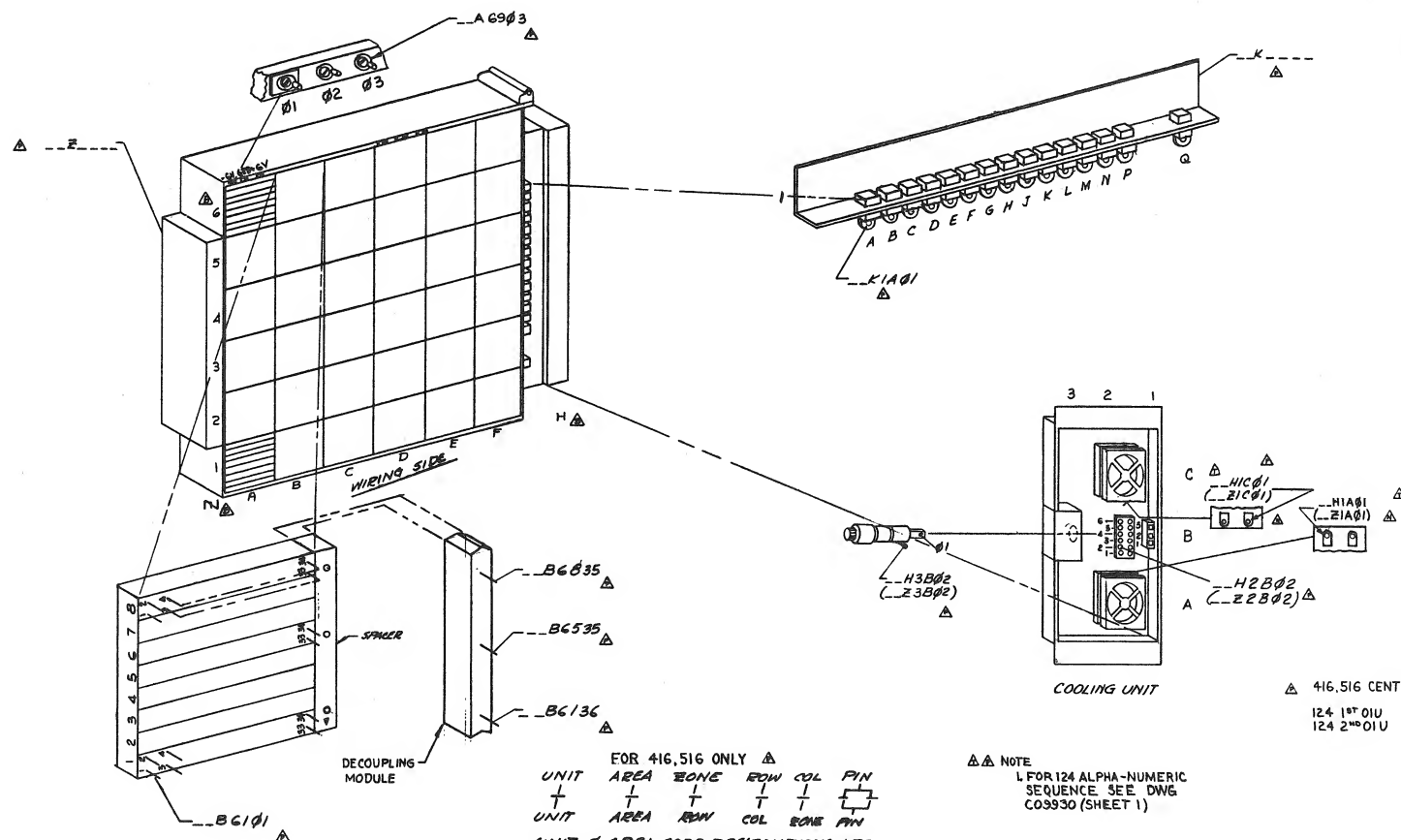
UNIT CODING

A
 E

SHEET 1 OF 9

HONEYWELL		CODING DWG	
COMPUTER CONTROL DIVISION		DOP-416, 516	
414 CONCORD PARK, FRAMINGHAM, MASS.			
DATE	7-11-66	REV	1
BY	W. J. S. L. A.	CHKD	W. J. S. L. A.
APP'D	W. J. S. L. A.	APP'D	W. J. S. L. A.
DATE	7-11-66	DATE	7-11-66
CODE IDENT NO.	07873	CODE IDENT NO.	014087

REVISIONS				
REV	DESCRIPTION	DATE	APP BY	DATE



FOR 416,516 ONLY Δ

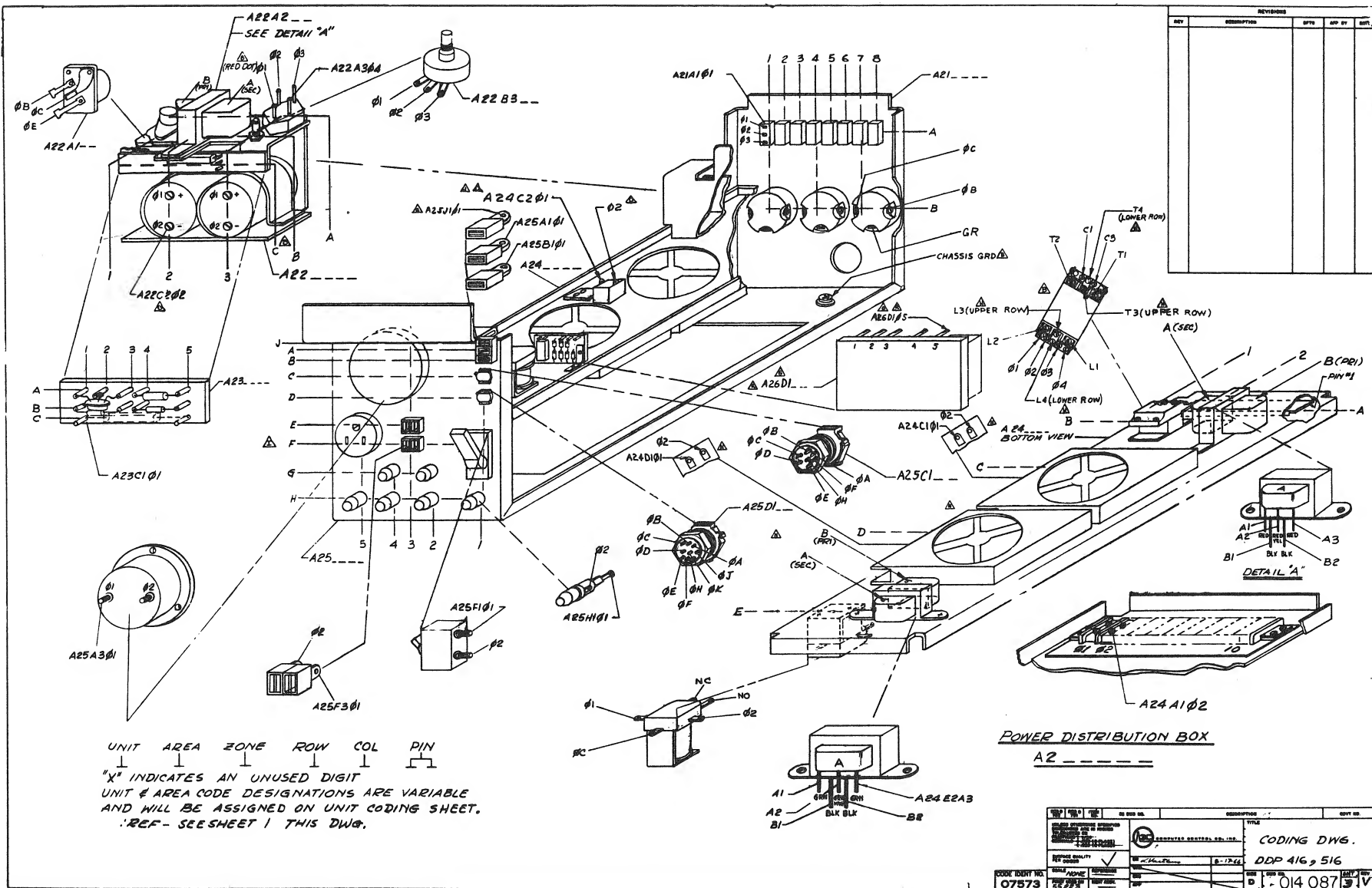
UNIT	AREA	ZONE	ROW	COL	PIN
+	+	+	+	+	+
UNIT	AREA	ROW	COL	ZONE	PIN

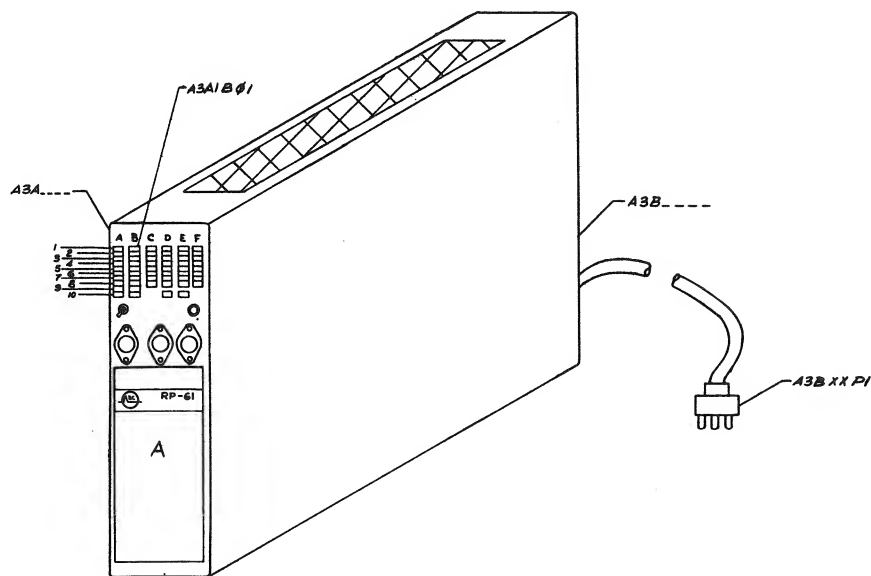
UNIT & AREA CODE DESIGNATIONS ARE VARIABLE AND WILL BE ASSIGNED PER INDIVIDUAL CODING SHEET- REF: SEE SHEET 1 THIS DWG.

Δ Δ NOTE
L FOR 124 ALPHA-NUMERIC SEQUENCE SEE DWG C09930 (SHEET 1)

Δ 416,516 CENTRAL PROCESSOR
124 1ST OIU
124 2ND OIU

CODE IDENT NO 07573	DATE 10/1/68	REVISIONS 1	TITLE CODING DRAWING
DDP-416,516 124 OPTION DRAWER		014 087 2 1	





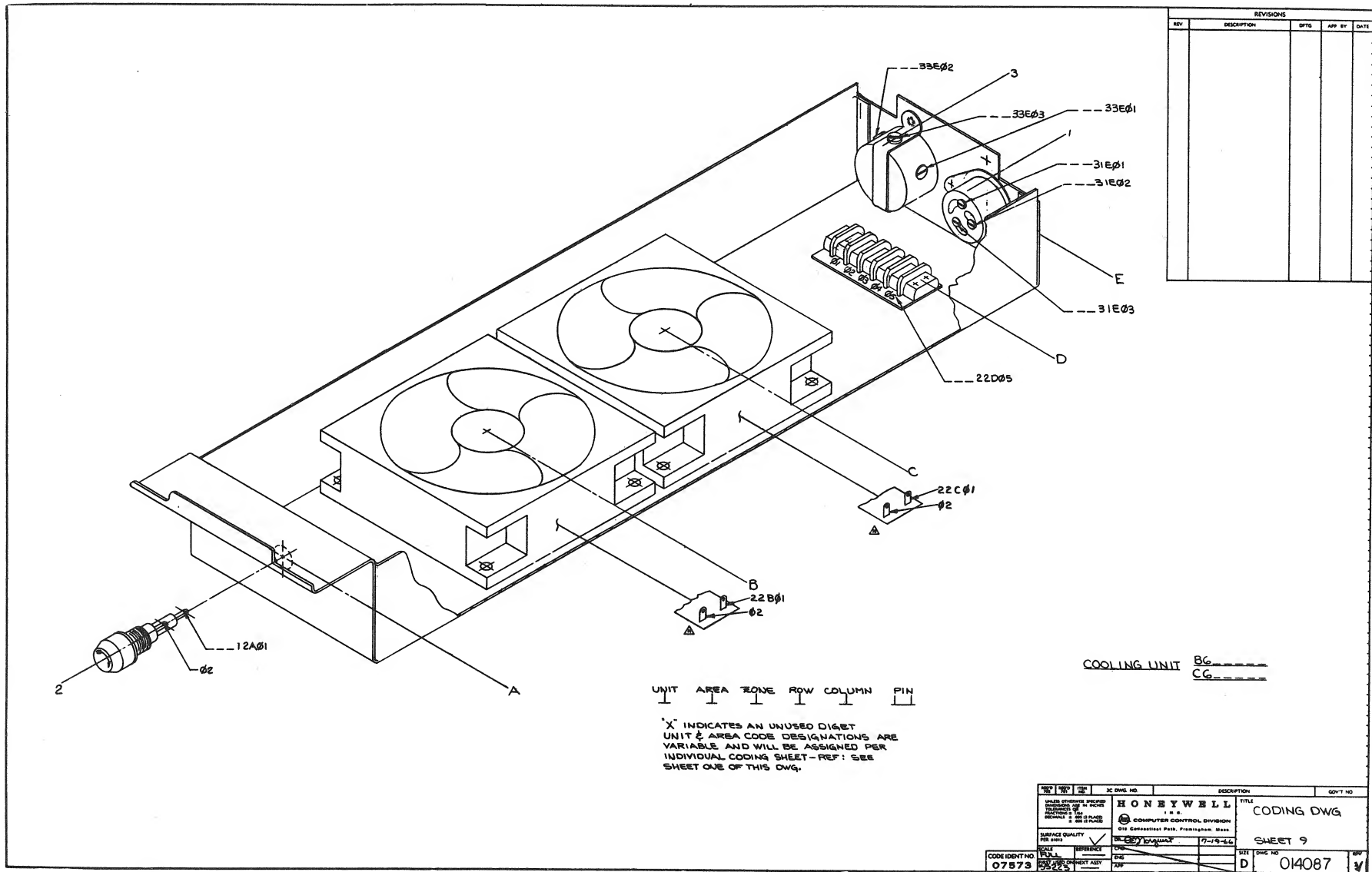
UNIT AREA ZONE ROW COL PIN
 1 1 1 1 1 1
 "X" INDICATES AN UNUSED DIGIT
 UNIT & AREA CODE DESIGNATIONS ARE VARIABLE
 AND WILL BE ASSIGNED ON UNIT CODING
 SHEET, REF: SEE SHEET 1 THIS DWG.

POWER SUPPLY RP-61

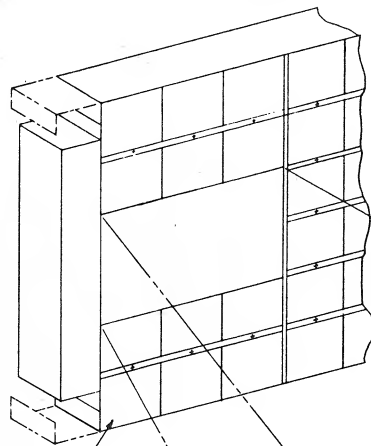
A3 _ _ _ _

REVISIONS				
REV	DESCRIPTION	DATE	BY	CHKD

CODE BOOK NO. 07573		TO DESIG. 07573		DESCRIPTION CODING DWG DD P-416, 516		REV. NO. 4	
DATE 10/1/61		BY J. L. R.		CHECKED J. L. R.		TITLE CODING DWG DD P-416, 516	
REVISIONS 1. 10/1/61		REVISIONS 1. 10/1/61		REVISIONS 1. 10/1/61		REVISIONS 1. 10/1/61	
07573		07573		07573		07573	



HONEYWELL COMPUTER CONTROL DIVISION 810 GARDEN PARK, FORT LEE, N.J.		TITLE CODING DWG	
SURFACE QUALITY PER SPEC		SHEET 9	
CODE IDENT NO 07573	DATE 11-15-66	SIZE D	QTY 014087



(PAC LOC A1)

△ BIT LOCATIONS (4K & BK)
TOP
X DIODE BOARD

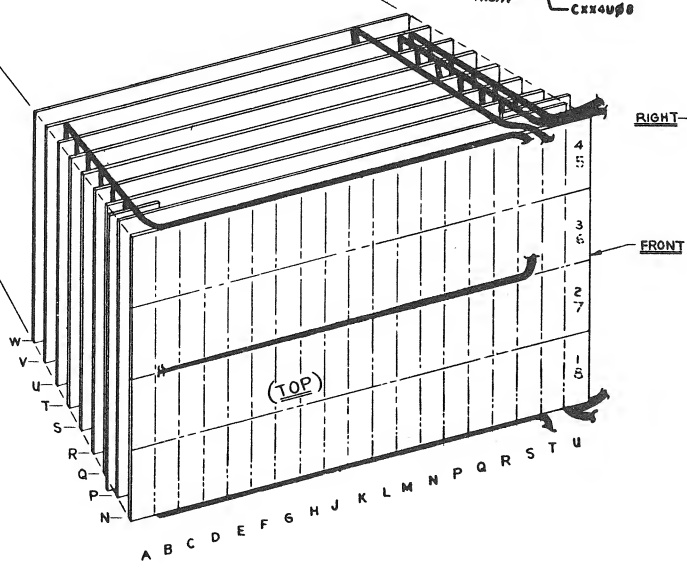
1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24
25	26	27	28
X BUS BOARD			

FRONT RIGHT

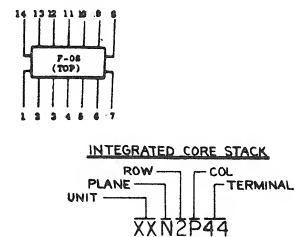
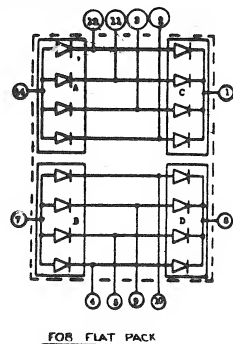
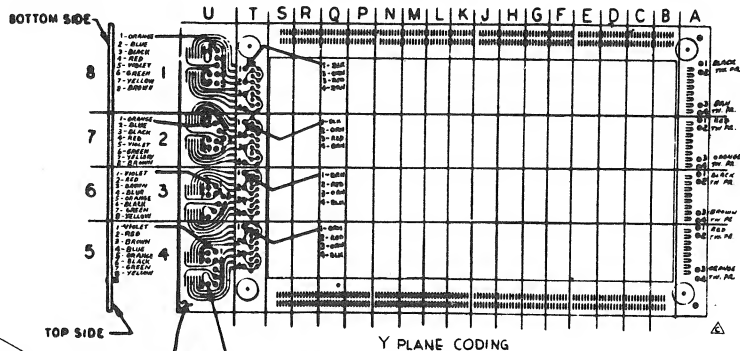
△ BIT LOCATIONS (16K)
TOP
X DIODE BOARD

1A	3A	2A	4A
1B	3B	2B	4B
5A	7A	6A	8A
5B	7B	6B	8B
9A	11A	10A	12A
9B	11B	10B	12B
13A	14A	13B	14B
X BUS BOARD			

FRONT RIGHT



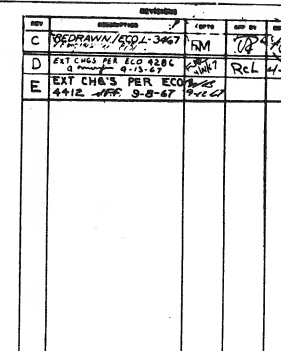
ROW
1-4 TOP
5-8 BOT
PLANE
N TO W
COLUMN
A TO U

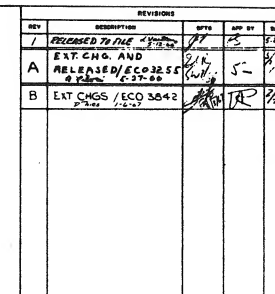


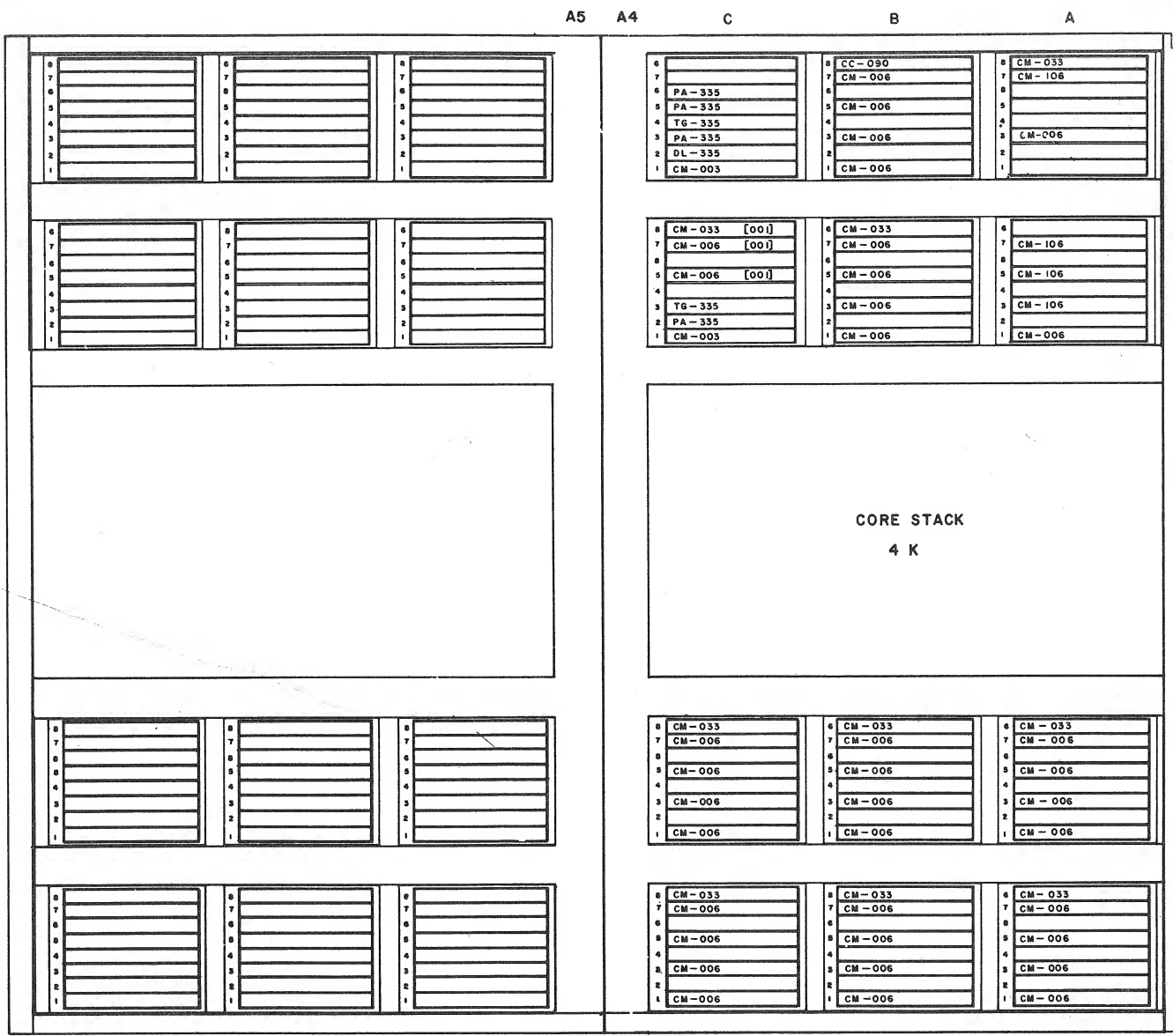
NOTES:
1. FOR STACKS WITH FEWER PLANES, REMOVE PLANE V, PLANES U & V, ETC.
2. FOR ADDITIONAL INFORMATION SEE 3C PURCHASE SPEC NO. 10 232.

CORE STACK

07573	07573	07573	07573
CODING DRAWING		KCM-40	
010 713		3 18	

[illegible]

75



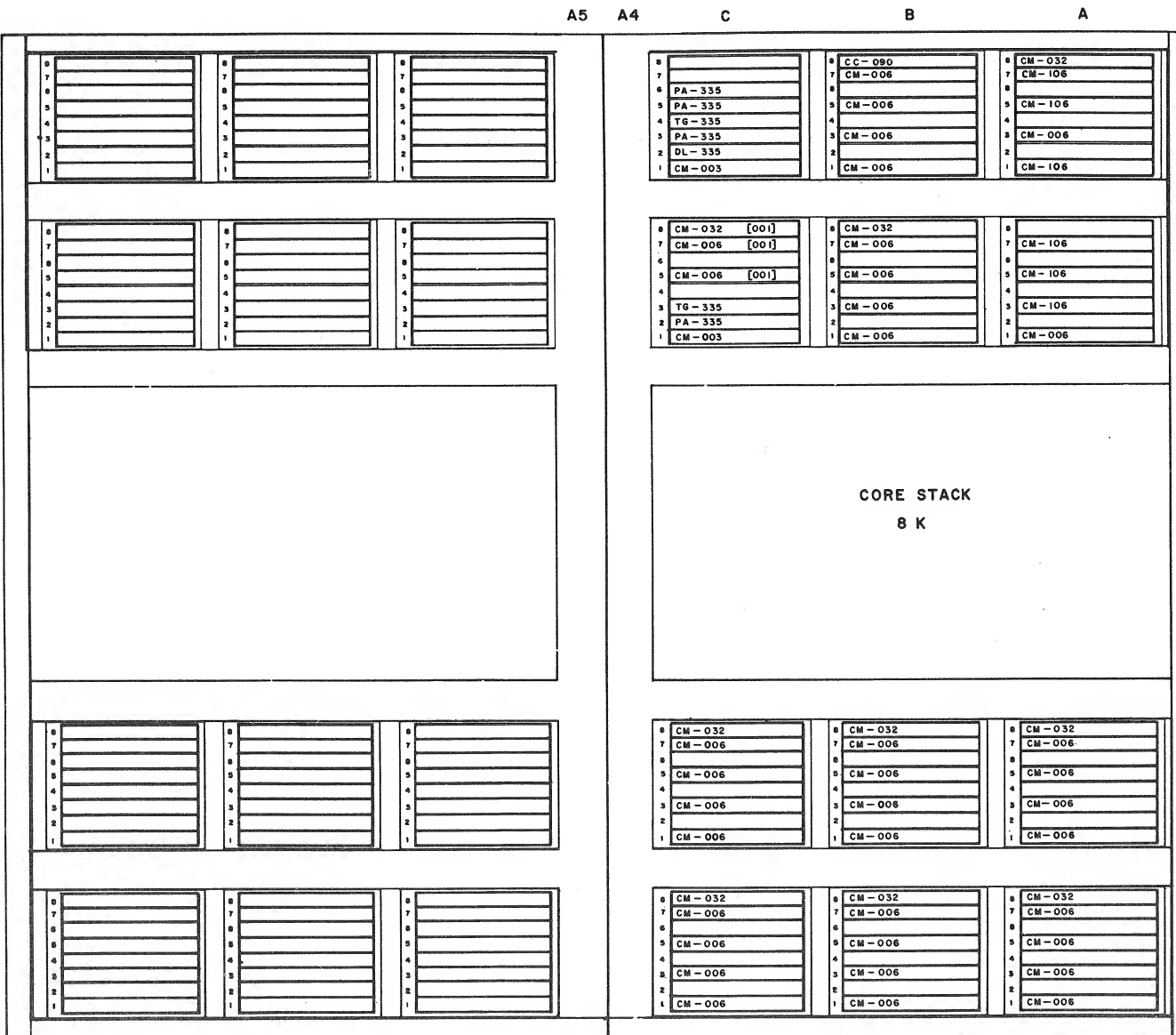
NOTES:
001 ALL PACS (PARITY)
002 ALL PACS EXCEPT THOSE INDICATED 001 (NO PARITY)

CHK.	REVISIONS	REV
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23	SR 64-1476	
24	428/02 1-18-67	
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66	428/02 1-18-67	
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68	428/02 1-18-67	
69	428/02 1-18-67	
70	428/02 1-18-67	
71	428/02 1-18-67	
72	428/02 1-18-67	
73	428/02 1-18-67	
74	428/02 1-18-67	
75	428/02 1-18-67	
76	428/02 1-18-67	
77	428/02 1-18-67	
78	428/02 1-18-67	
79	428/02 1-18-67	
80	428/02 1-18-67	
81	428/02 1-18-67	
82	428/02 1-18-67	
83	428/02 1-18-67	
84	428/02 1-18-67	
85	428/02 1-18-67	
86	428/02 1-18-67	
87	428/02 1-18-67	
88	428/02 1-18-67	
89	428/02 1-18-67	
90	428/02 1-18-67	
91	428/02 1-18-67	
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93	428/02 1-18-67	
94	428/02 1-18-67	
95	428/02 1-18-67	
96	428/02 1-18-67	
97	428/02 1-18-67	
98	428/02 1-18-67	
99	428/02 1-18-67	
100	428/02 1-18-67	

HONEYWELL
IN C.
COMPUTER CONTROL DIVISION
Old Connecticut Path, Framingham, Mass.
DR. 9-1-67
ENG. 1-18-67
APP. 1-18-67
PROJECT NO. 55215

REFERENCE PAC COMPLEMENT A009705

TITLE
PAC ALLOCATION A4/A5
4K TILT OUT
SIZE DWG NO. 017110
REV. C



1
2
3
4
5
6
7
8
9
10
11

NOTES:

- 001 ALL PACS (PARITY)
- 002 ALL PACS EXCEPT THOSE INDICATED 001 (NO PARITY)

CHK	REVISIONS	REV
✓	TAKEN FROM 1A	A
✓	SR # 64-1476	
✓	EXT. CHANGES 4/28/67 R.T.	
✓	ECO 4350	B
✓	ECO 4689	C
✓	EXT. CHANGES SEE ECO J.P. 7/16/67	

HONEYWELL
IN C.
COMPUTER CONTROL DIVISION
Old Connecticut Path, Framingham, Mass.

DR. *G. K. M. J.* DATE *1-13-67*
ENG. *H. J. M. J.*
APR. *G. C. M. J.* *1-13-67*
PROJECT NO. 55215

REFERENCE PAC COMPLEMENT A009705

TITLE
PAC ALLOCATION A4/A5
8K TILT OUT

SIZE DWG NO. 017111

REV. C



```

001 ALL PACS (PARITY)
002 ALL PACS EXCEPT THOSE INDICATED 001 (NO PARITY)

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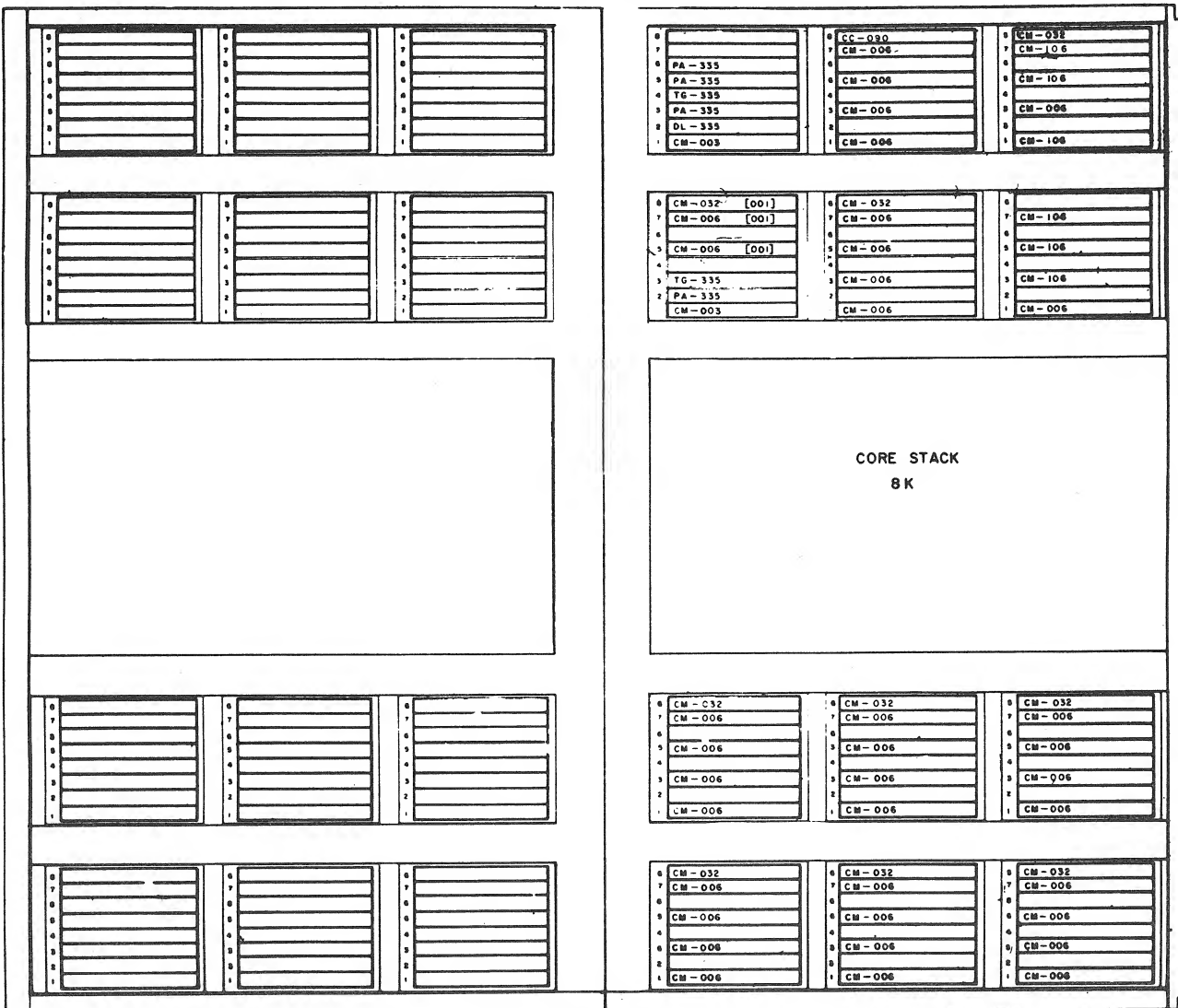
H O N E Y W E L L	
I N C.	
COMPUTER CONTROL DIVISION	
Old Connecticut Path, Framingham, Mass.	
DR. <i>A. Kuntz</i>	DATE
ENG. <i>A. D. Hendre</i>	1-18-67
APP. <i>A. D. Hendre</i>	1-18-67
PROJECT NO. 55215	

2	SIZE	DWG NO.
2	C	017112

L.B.D. NO.
0.195

A B C D E F G H I J K L

B1 B2 C B A



CORE STACK
8K

REFERENCE PAC COMPLEMENT A009705

001 ALL PACS (PARITY)
202 ALL PACS EXCEPT THOSE INDICATED 001 (NO PARITY)

REV	REVISIONS
1	TAKEN FROM A
2	BY 6-14-76
3	BY 6-14-76
4	BY 6-14-76
5	BY 6-14-76
6	BY 6-14-76
7	BY 6-14-76
8	BY 6-14-76
9	BY 6-14-76
10	BY 6-14-76
11	BY 6-14-76

REV	REVISIONS
1	TAKEN FROM A
2	BY 6-14-76
3	BY 6-14-76
4	BY 6-14-76
5	BY 6-14-76
6	BY 6-14-76
7	BY 6-14-76
8	BY 6-14-76
9	BY 6-14-76
10	BY 6-14-76
11	BY 6-14-76

HONEYWELL
IN C
COMPUTER CONTROL DIVISION
Old Connecticut Path Framingham, Mass.
DATE 1-18-67
ENG. 1-18-67
APP. 1-18-67
PROJECT NO 55215

TITLE
PAC ALLOC B1/B2
8K TILT OUT

SIZE DWG NO.
C 017114

REV
B

A B C D E F G H J K L M N P

LB.D. NO.
1.196



B1 B2

8		8	CC-090	8	CM-032
7		7	CM-006	7	CM-106
6	PA-335	6		6	
5	PA-335	5	CM-006	5	CM-106
4	TG-335	4		4	
3	PA-335	3	CM-006	3	CM-006
2	DL-335	2		2	
1	CM-003	1	CM-006	1	CM-106

8	CM-032 (001)	8	CM-032	8	
7	CM-006 (001)	7	CM-006	7	CM-106
6		6		6	
5	CM-006 (001)	5	CM-006	5	CM-106
4		4		4	
3	TG-335	3	CM-006	3	CM-106
2	PA-335	2		2	
1	CM-003	1	CM-006	1	CM-006

CORE STACK
8K

8	CM-032	8	CM-032	8	CM-032
7	CM-006	7	CM-006	7	CM-006
6		6		6	
5	CM-006	5	CM-006	5	CM-006
4		4		4	
3	CM-006	3	CM-006	3	CM-006
2		2		2	
1	CM-006	1	CM-006	1	CM-006

8	CM-032	8	CM-032	8	CM-032
7	CM-006	7	CM-006	7	CM-006
6		6		6	
5	CM-006	5	CM-006	5	CM-006
4		4		4	
3	CM-006	3	CM-006	3	CM-006
2		2		2	
1	CM-006	1	CM-006	1	CM-006

8		8	CM-006	8	CM-032
7		7		7	CM-106
6	PA-335	6		6	
5	PA-335	5	CM-006	5	CM-106
4	TG-335	4		4	
3	PA-335	3	CM-006	3	CM-006
2	PA-335	2		2	
1	CM-003	1	CM-006	1	CM-106

8	CM-032 (001)	8	CM-032	8	
7	CM-006 (001)	7	CM-006	7	CM-106
6		6		6	
5	CM-006 (001)	5	CM-006	5	CM-106
4		4		4	
3	TG-335	3	CM-006	3	CM-106
2	PA-335	2		2	
1	CM-003	1	CM-006	1	CM-006

CORE STACK
8K

8	CM-032	8	CM-032	8	CM-032
7	CM-006	7	CM-006	7	CM-006
6		6		6	
5	CM-006	5	CM-006	5	CM-006
4		4		4	
3	CM-006	3	CM-006	3	CM-006
2		2		2	
1	CM-006	1	CM-006	1	CM-006

8	CM-032	8	CM-032	8	CM-032
7	CM-006	7	CM-006	7	CM-006
6		6		6	
5	CM-006	5	CM-006	5	CM-006
4		4		4	
3	CM-006	3	CM-006	3	CM-006
2		2		2	
1	CM-006	1	CM-006	1	CM-006

REFERENCE PAC COMPLEMENT A009705

NOTES:
 ▲ 001 ALL PACS (PARITY)
 ▲ 002 ALL PACS EXCEPT THOSE INDICATED 001 (NO PARITY)
 ▲
 ▲

CHK	REVISIONS	REV.
	TAKEN FROM A	
	SR. NO. 54.4976	
	TL. RICHARDSON 1/3/67	
	J. DESANTIS 1/13/67	
	ECO 4895	
	EXT CHANGES 10/25/67	
	SEE ECO DMH.	
	R.A. BARELLA 10/17/67	

HONEYWELL
 INC.
 COMPUTER CONTROL DIVISION
 Old Connecticut Path, Framingham, Mass.

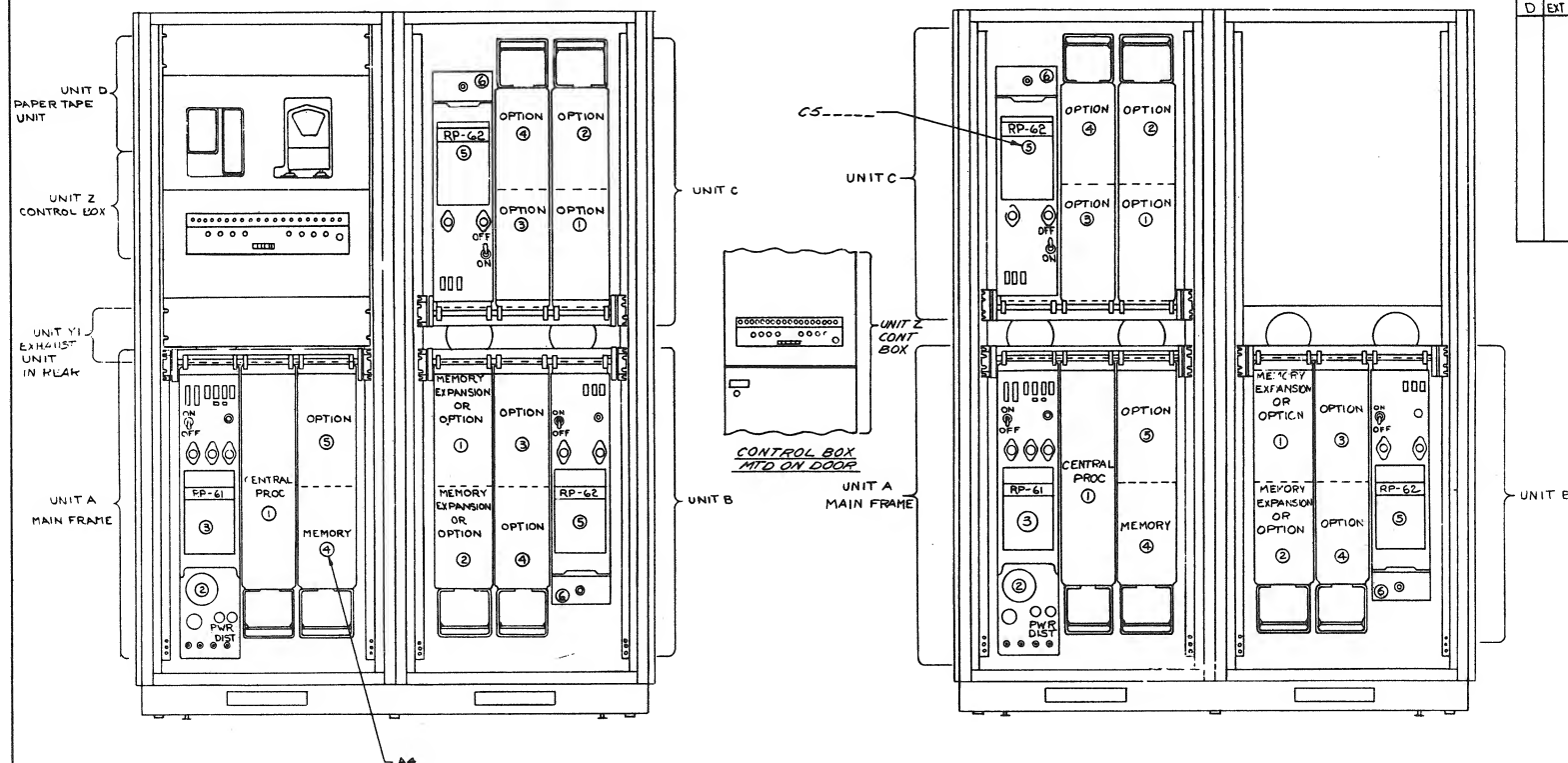
DR. A. KURTZER	DATE
ENG. <i>[Signature]</i>	1/13/67
APP. <i>[Signature]</i>	1/13/67
PROJECT NO. 55215	

TITLE	
PAC ALLOCATION B1/B2	
16K TILT OUT	
SIZE	DWG. NO.
C	017115
REV.	B

SYSTEM WITH PAPER TAPE

SYSTEM WITHOUT PAPER TAPE

REVISIONS				
REV	DESCRIPTION	DATE	APP BY	DATE
A	TAKEN FROM LAYOUT #0019434 & #0019435	11-15-63	J	11-15-63
B	EXT CHG/ECO L5528	1-17-64	J	1-17-64
C	RELEASED ECO L5530	2-26-64	J	2-26-64
D	EXT CHG/ECO L5519	4-20-64	J	4-20-64



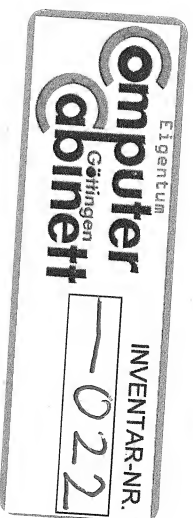
NOTES

1. ALPHA SEQUENCE: ABCDEFGHJKLMNP QRSTUVYZ
2. NUMERICAL SEQUENCE: 0123456789
3. X INDICATES AN UNUSED DIGIT
4. REFER TO DWG. NO. A020250701 FOR CODING BREAKDOWN OF EXHAUST UNIT IN REAR.
5. REFER TO DWG. NO. D014087000 FOR CODING BREAKDOWN OF REMAINING UNITS.

Y I X D Z
T 1 X D Z
AREA T X D Z
ZONE T X D Z
ROW T X D Z
COL T X D Z
PIN T X D Z
PIN T X D Z

HONEYWELL		TITLE	
COMPUTER CONTROL DIVISION		CODING	
516 N		516 N	
DWG. NO. D020350		REV. D	
DATE 3-21-67		BY J. J. J.	





INVENTAR-NR.

— 022